

HALLIBURTON

ARRAY COMPENSATED
TRUE RESISTIVITY
LOG

COMPANY				MERIT ENERGY COMPANY			
WELL				WELCH BELL 1			
FIELD/BLOCK				EUBANK			
COUNTY				HASKELL			
STATE				KANSAS			
Permanent Datum		GL		API No. 15081221780000		Other Services: DSNT/SDLT MICROLOG GEM CSNG BSAT ACRT	
Log measured from		KB		Location (SHL) 580' FEL & 2278' FNL NW SE SE NE			
Drilling measured from		KB		Sect. 4		Twp. 28S	
Date		24-Jul-18		Elev. 3078.0 ft		Rge. 34W	
Run No.		ONE					
Depth - Driller		5570.0 ft					
Depth - Logger		5566.0 ft					
Bottom - Logged Interval		5557.00 ft					
Top - Logged Interval		1786.00 ft					
Casing - Driller		8.625 in		@ 1788.0 ft		@	
Casing - Logger		1786.0 ft					
Bit Size		7.875 in				@	
Type Fluid in Hole		Water Based Mud					
Density	Viscosity	9.3 cP		57.00 s/qt			
	Fluid Loss	11.00 pH		6.4 cpm			
Source of Sample		MUDPIT					
Rm @ Meas. Temperature		0.97 ohmm		@ 75.00 degF		@	
Rmf @ Meas. Temperature		0.82 ohmm		@ 75.00 degF		@	
Rmc @ Meas. Temperature		1.11 ohmm		@ 75.00 degF		@	
Source Rmf		MEAS		MEAS			
Rm @ BHT		0.56 ohmm		@ 136.0 degF		@	
Time Since Circulation		6.0 hr					
Time on Bottom		24-Jul-18 13:00					
Max. Rec. Temperature		136.00 degF		@ 5566.0 ft		@	
Equipment		12147634		EL RENO, OK			
Recorded By		JORGE ORLANDO PEREZ					
Witnessed By		MATTHEW GARVIN					

Service Ticket No.: 905001298						API No.: 15081221780000						PGM Version: WL INSITE R5.6.0 (Build 2)					
CHANGE IN MUD TYPE OR ADDITIONAL SAMPLE								RESISTIVITY SCALE CHANGES									
Date	Sample No.						Type Log	Depth	Scale Up Hole			Scale Down Hole					
Depth-Driller																	
Type Fluid in Hole																	
Density	Viscosity																
Ph	Fluid Loss																
Source of Sample								RESISTIVITY EQUIPMENT DATA									
Rm @ Meas. Temp		@			@			Run No.	Tool Type & No.	Pad Type		Tool Pos.		Other			
Rmf @ Meas. Temp.		@			@			ONE	ACRT	N/A		1.5" S.O.		N/A			
Rmc @ Meas. Temp.		@			@				I-12109517								
Source Rmf	Rmc							S-12109515									
Rm @ BHT		@			@												
Rmf @ BHT		@			@												
Rmc @ BHT		@			@												
EQUIPMENT DATA																	
GAMMA				ACOUSTIC				DENSITY				NEUTRON					
Run No.	ONE			Run No.	ONE			Run No.	ONE			Run No.	ONE				
Serial No.	11013114			Serial No.	10747686			Serial No.	12153520			Serial No.	10993115				
Model No.	GTET			Model No.	BSAT			Model No.	SDLT			Model No.	DSNT				
Diameter	3.625"			No. of Cent.	2			Diameter	5.5"			Diameter	3.625"				
Detector Model No.	T-102			Spacing	EVEN			Log Type	GAM-GAM			Log Type	NEU-NEU				
Type	SCINT							Source Type	CS137			Source Type	AM241BE				
Length	8"			LSA [Y/N]				Serial No.	5471GW			Serial No.	DSN-424				
Distance to Source	N/A			FWDA [Y/N]				Strength	1.78 Ci			Strength	15.0 Ci				
LOGGING DATA																	
GENERAL				GAMMA		ACOUSTIC			DENSITY				NEUTRON				
Run	Depth		Speed	Scale		Scale		Matrix	Scale		Matrix	Scale		Matrix			
No.	From	To	ft/min	L	R	L	R		L	R		L	R				
ONE	TD	CSG	REC	0	150	30	-10	47.6 uSec/ft	30	-10	2.71 gr/cc	30	-10	LIME			

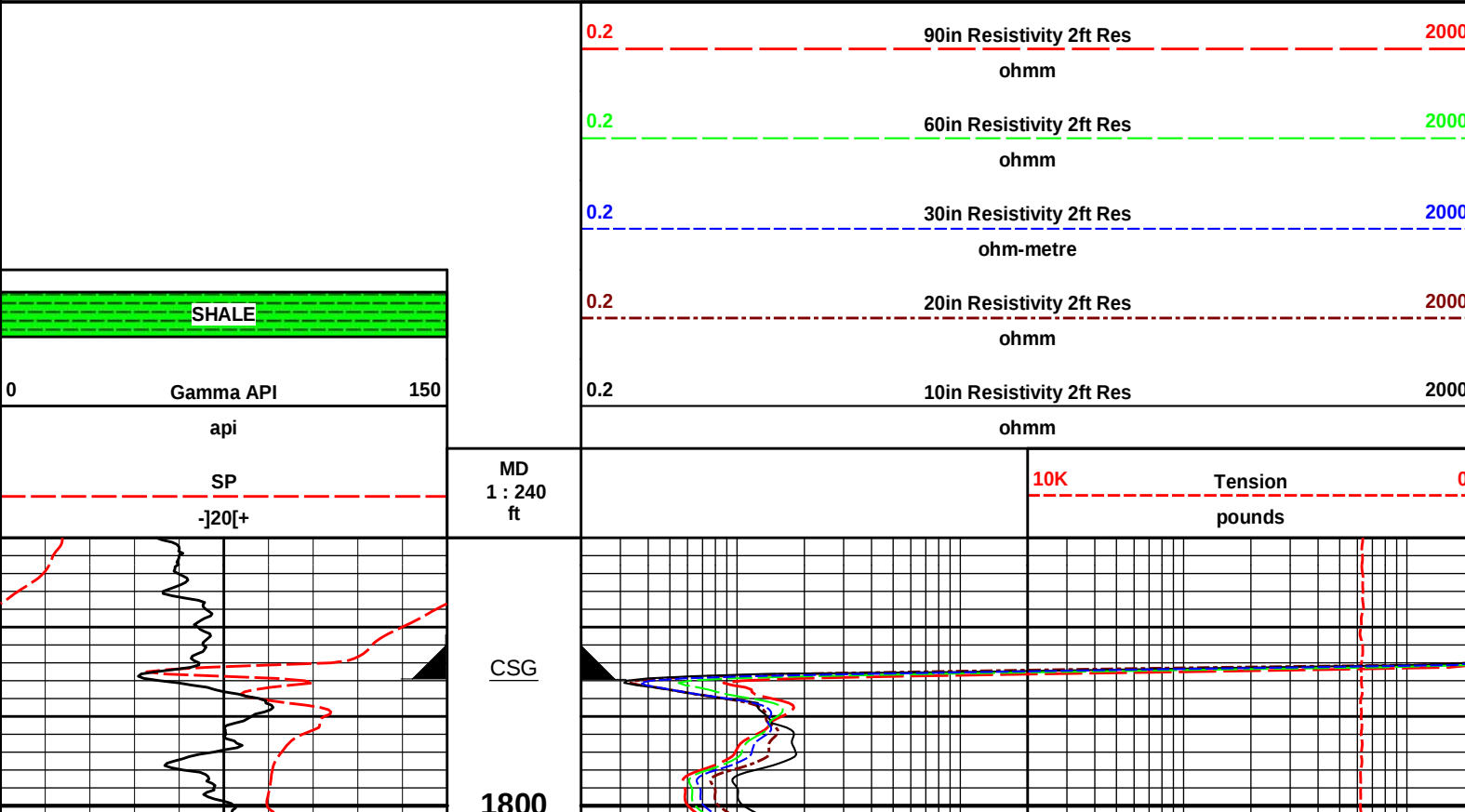
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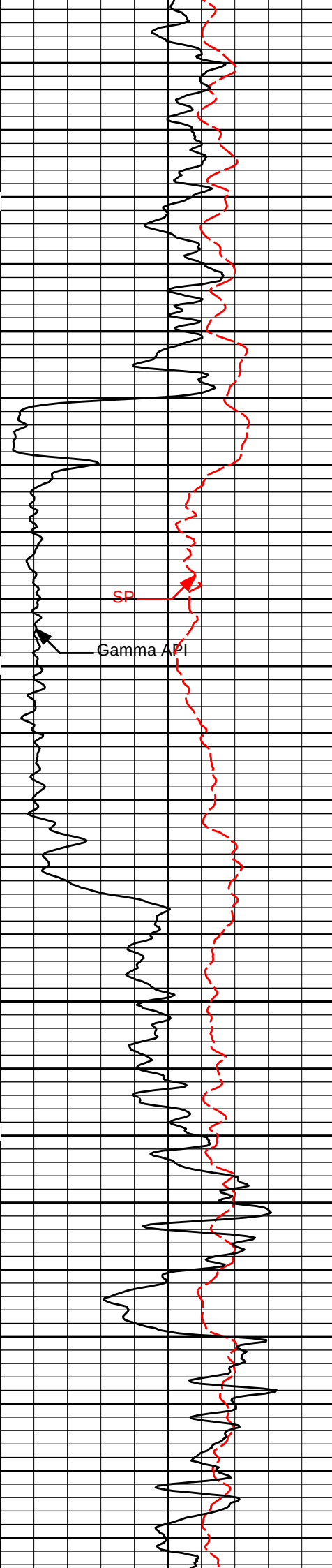
HALLIBURTON

Plot Time: 24-Jul-18 14:18:24
Plot Range: 1770 ft to 5571.25 ft
Data: WELCH-BELL_1\Well Based\MAIN\
Plot File: \\LOCAL-WELCH-BELL_1\Well Based\ACRT5\ACRT_5_main.lib

5 INCH MAIN LOG

MEASURED DEPTH
MAIN SECTION 5" PER 100'

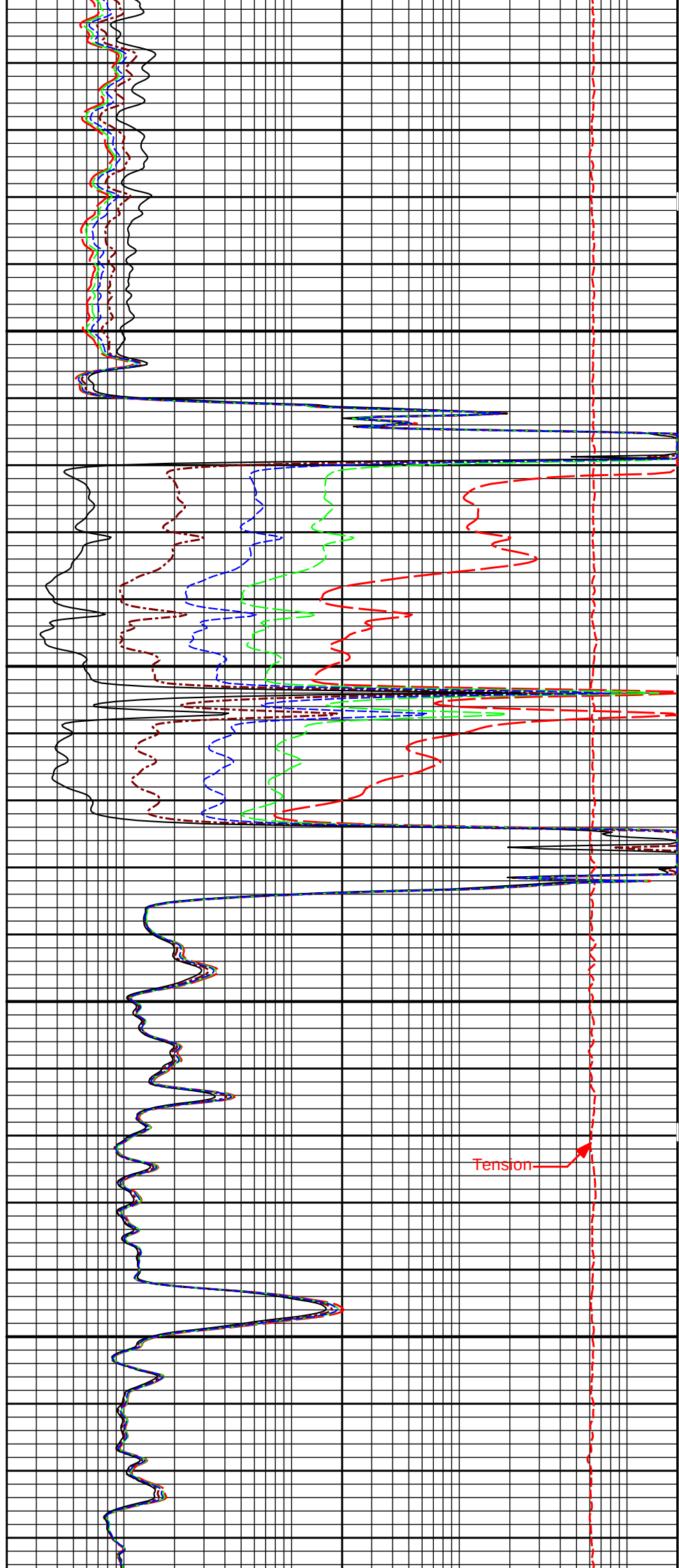




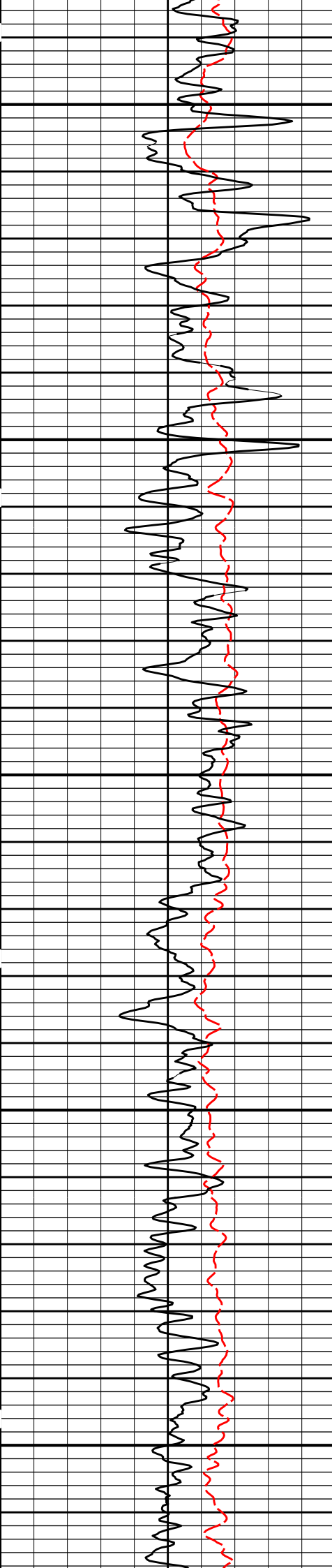
1000

1900

2000

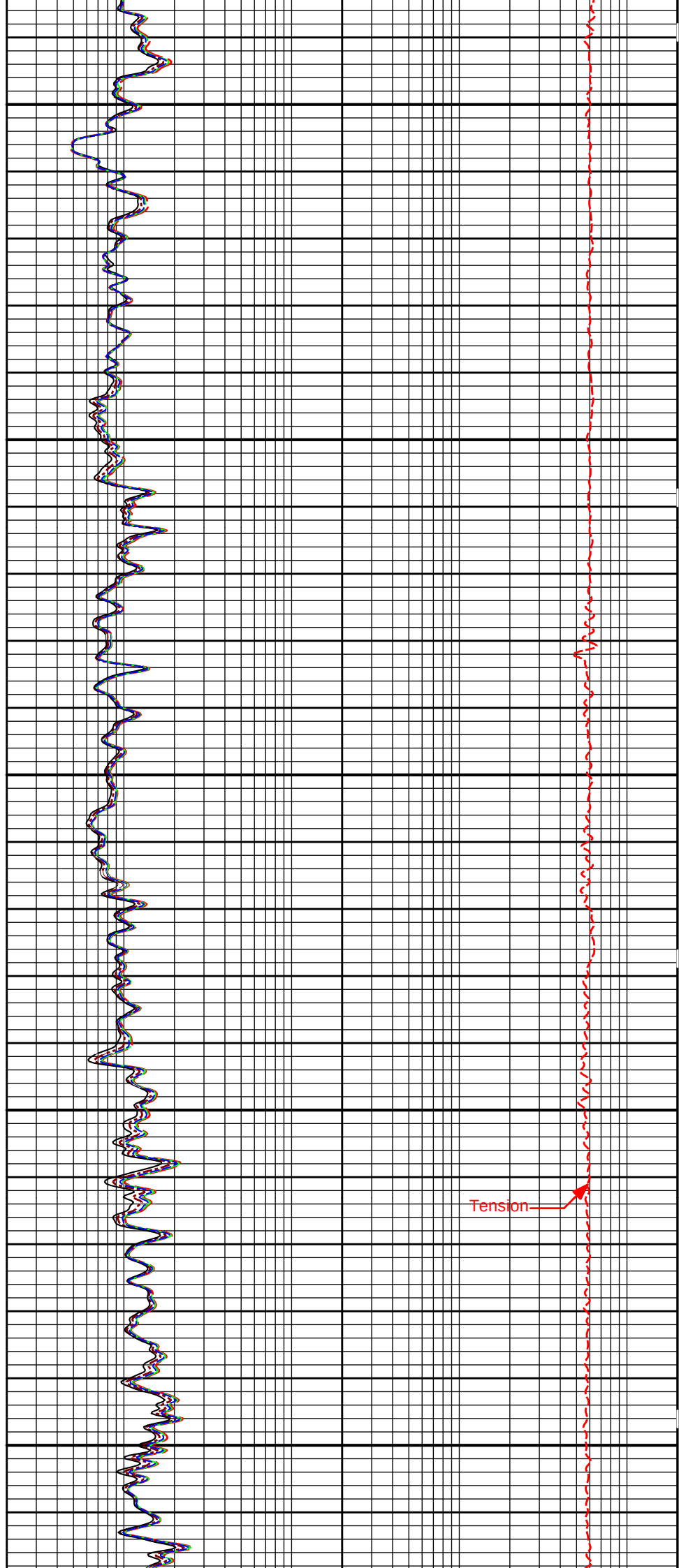


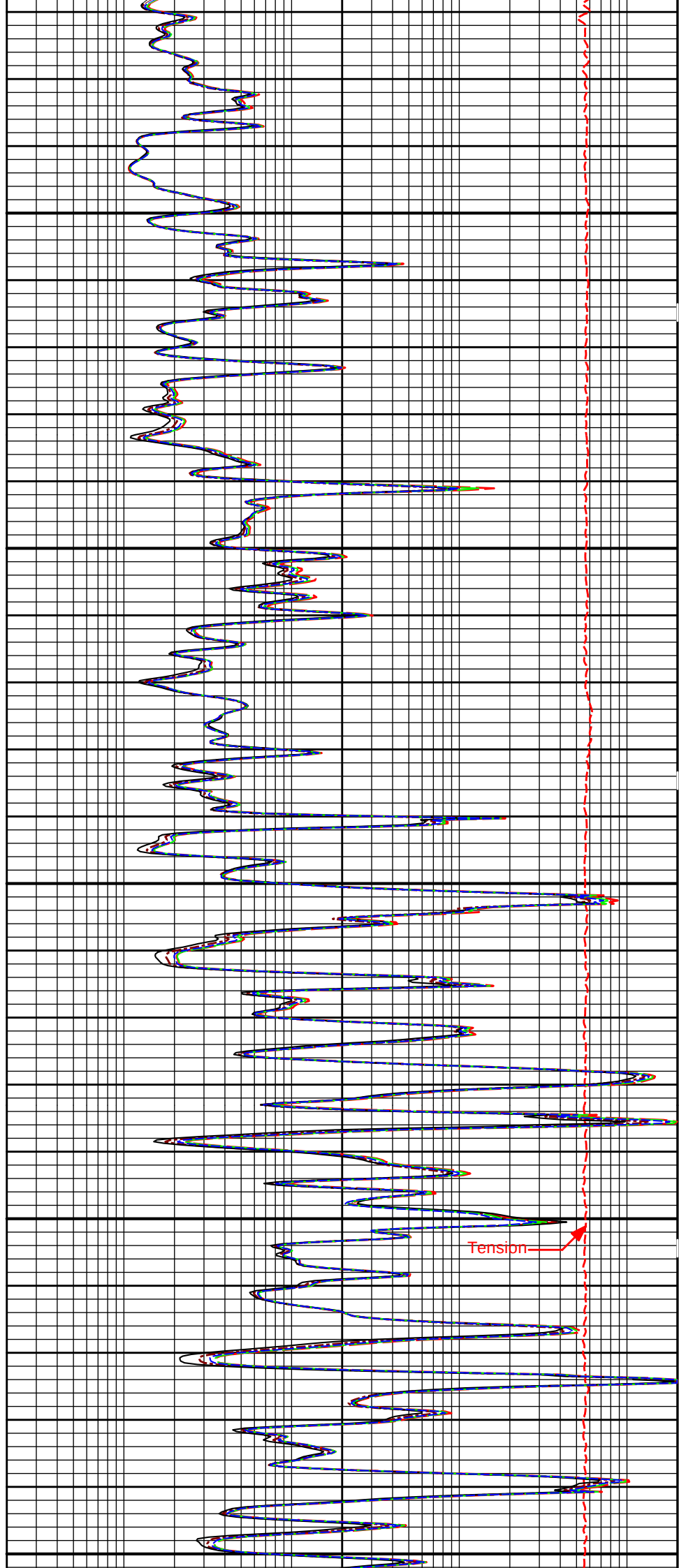
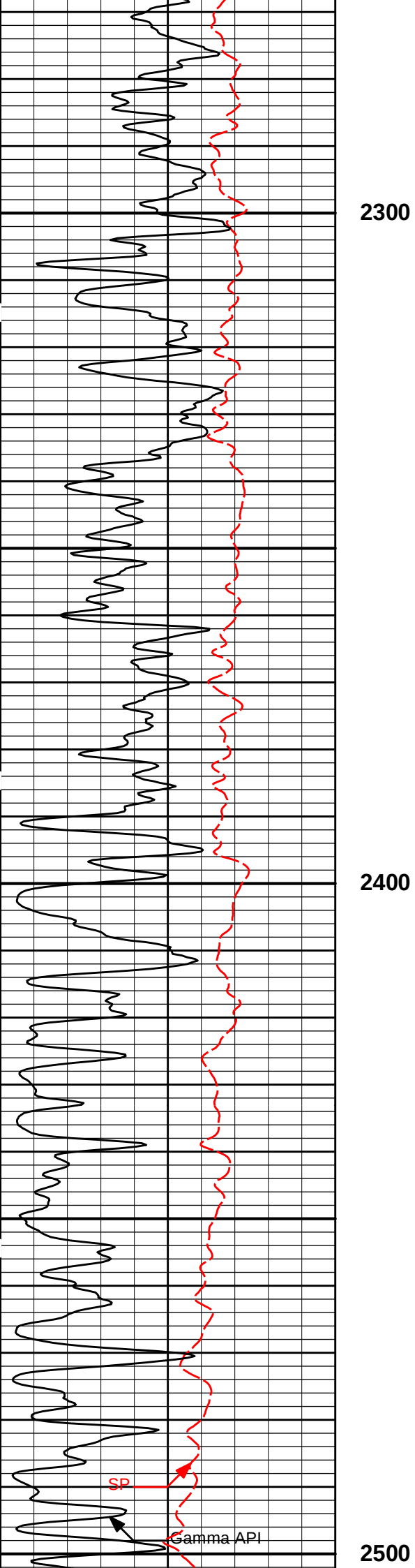
Tension

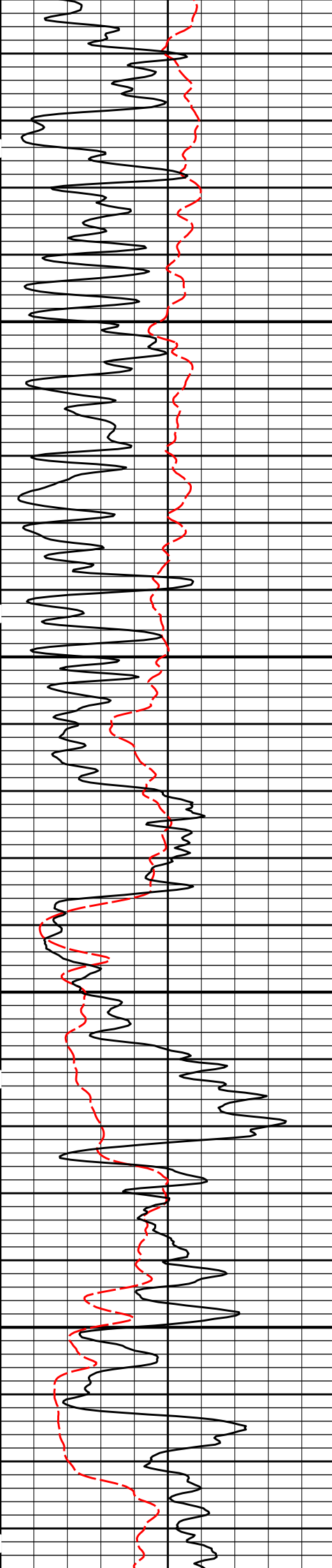


2100

2200

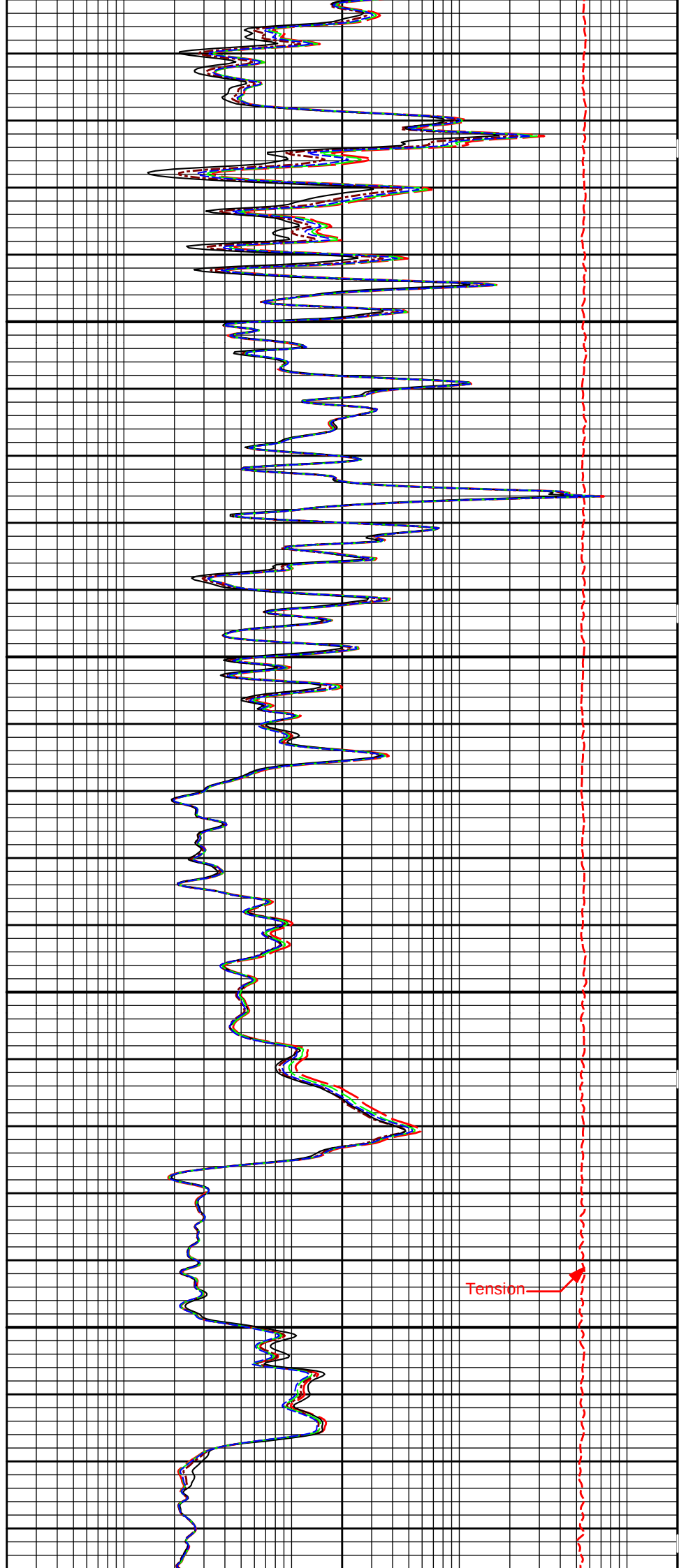




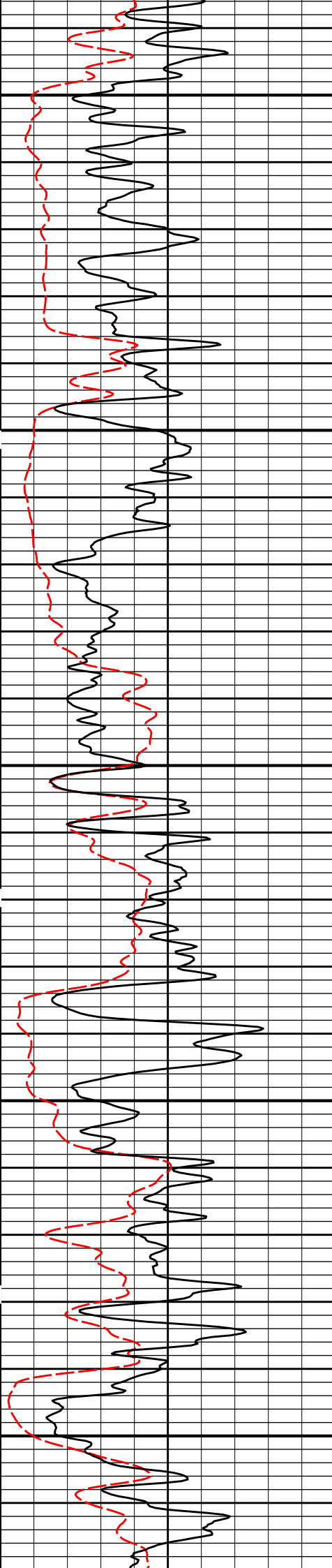


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2700

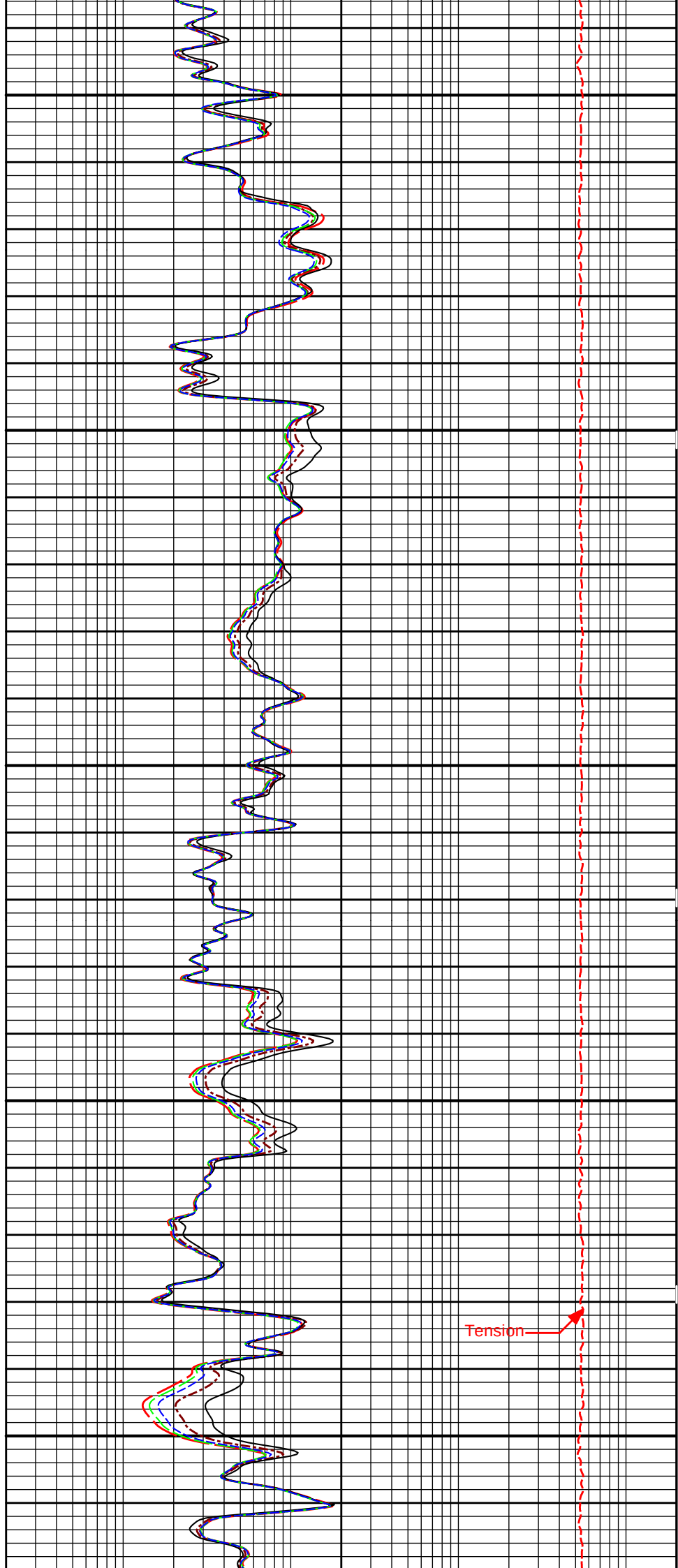


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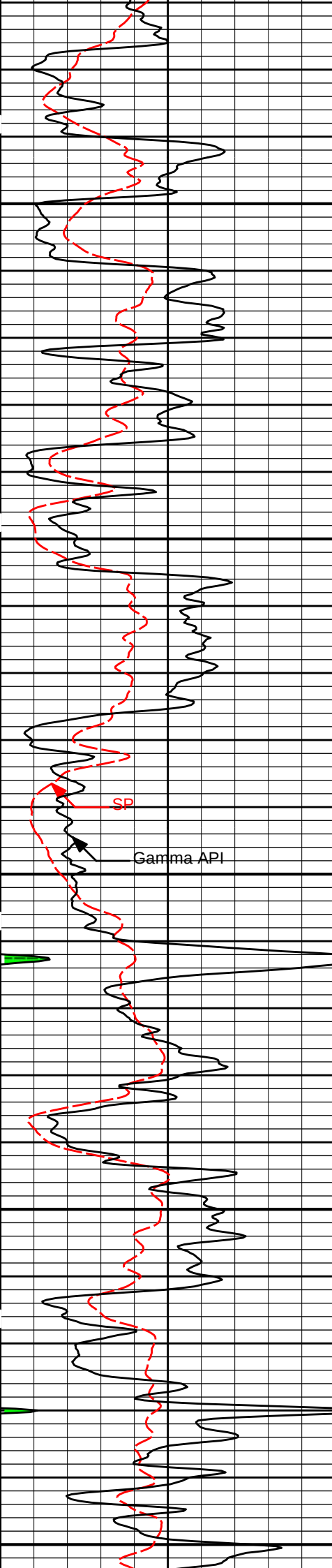


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2900



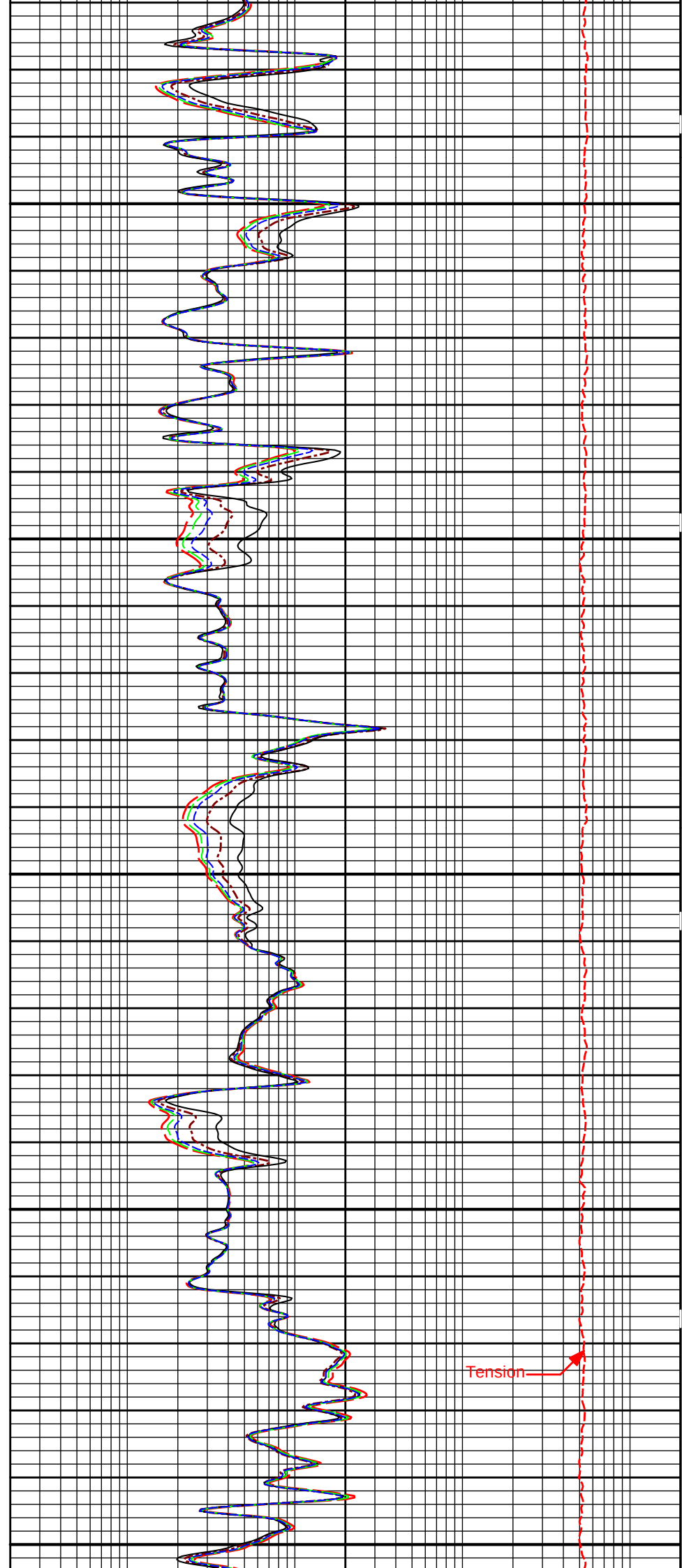
Tension



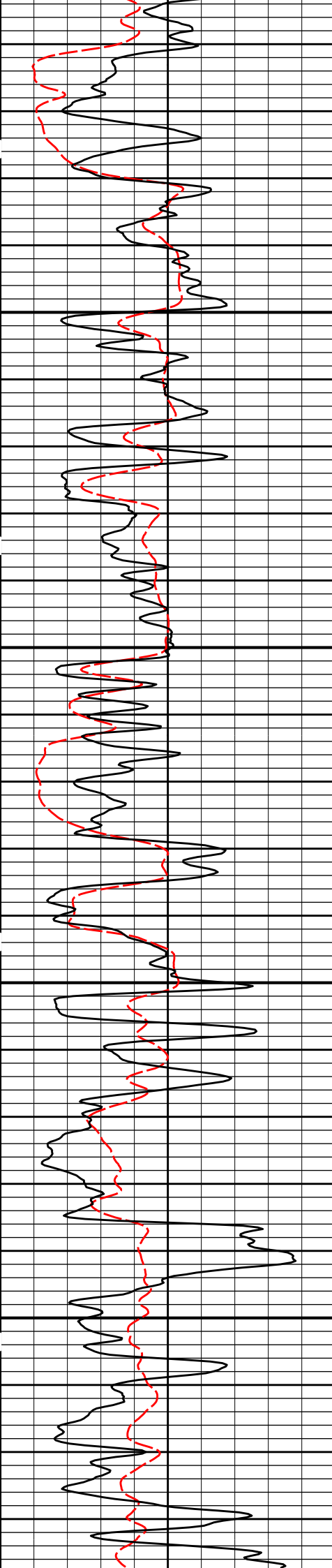
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3100

3200

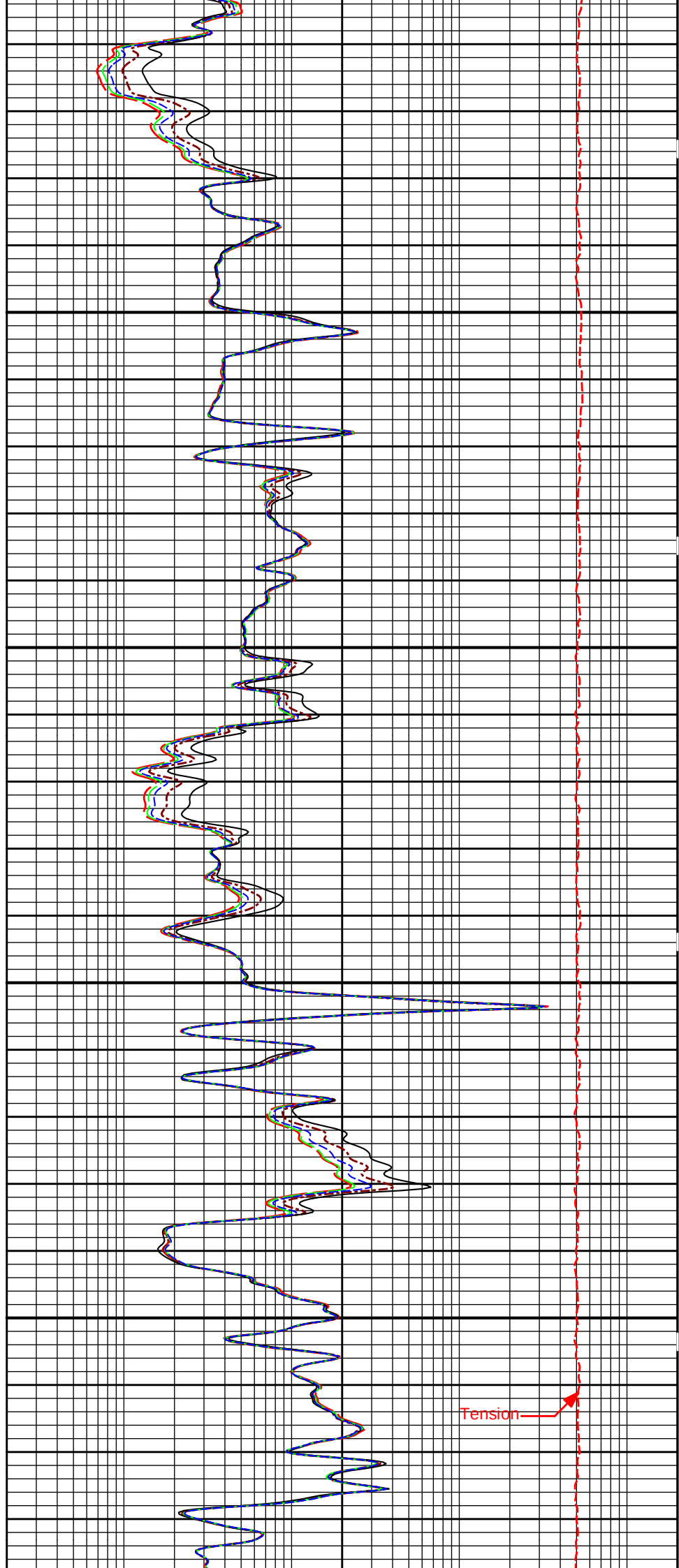


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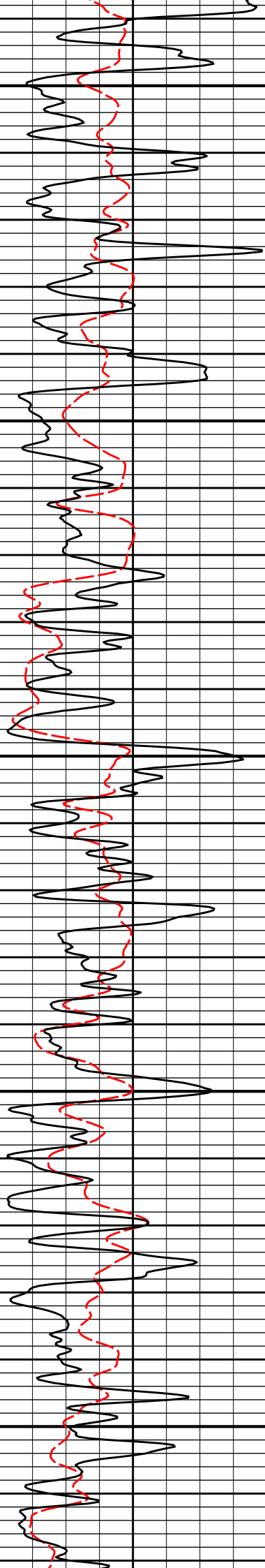


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3400

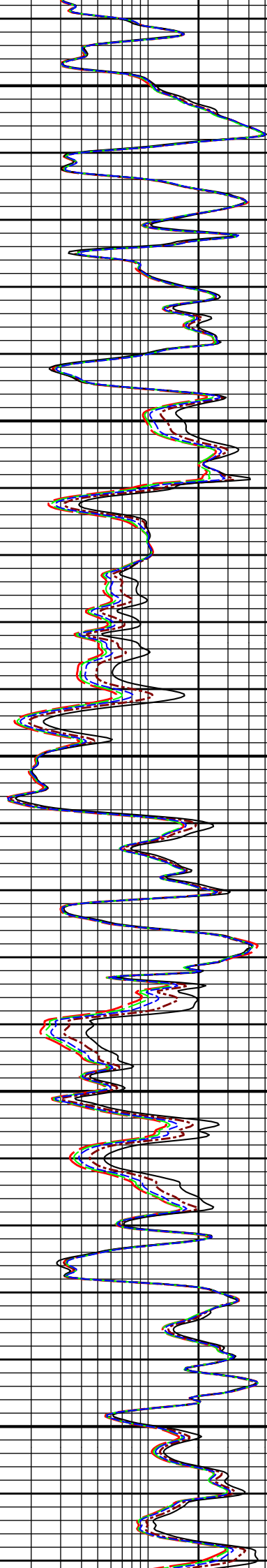


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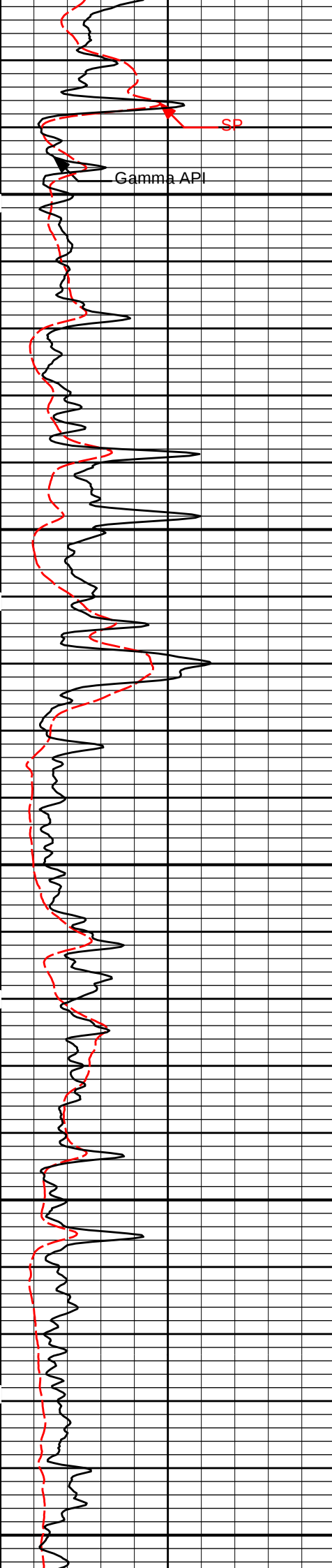


3500

3600



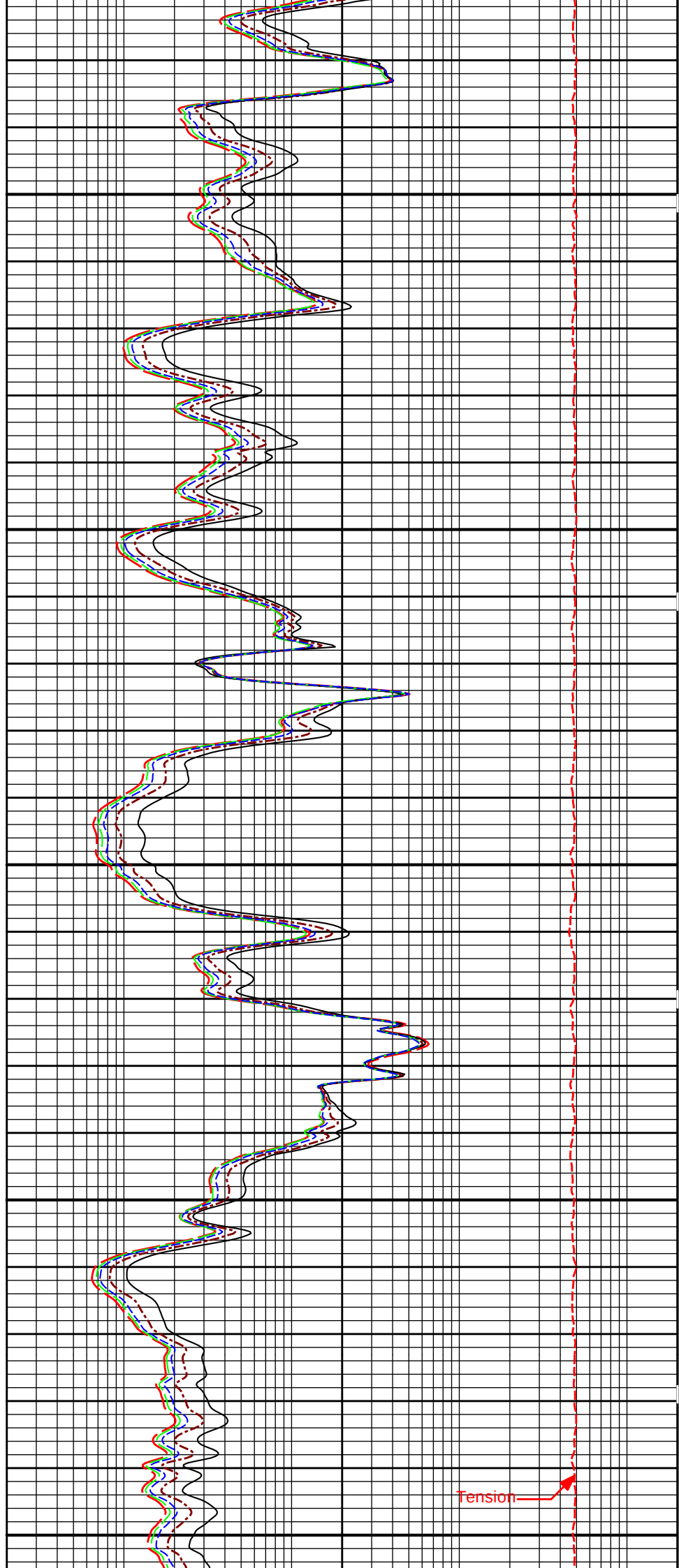
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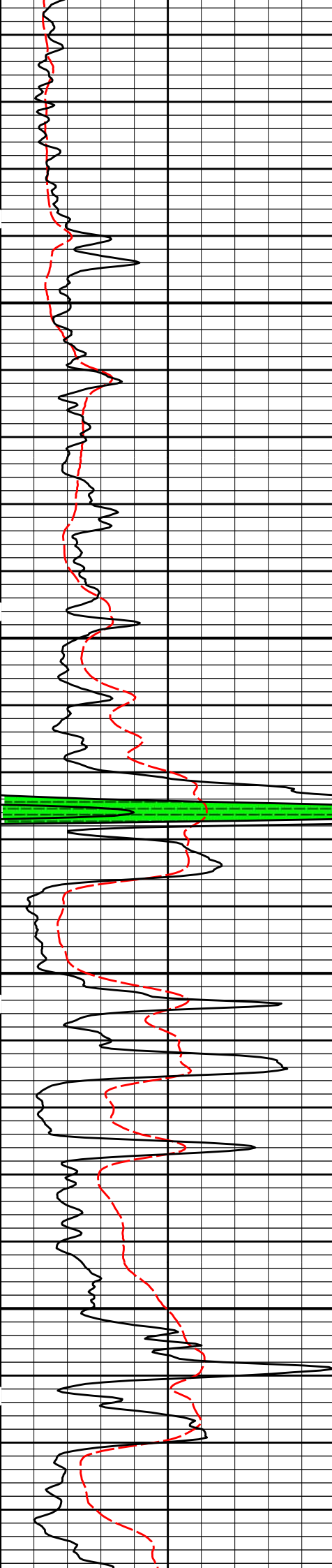
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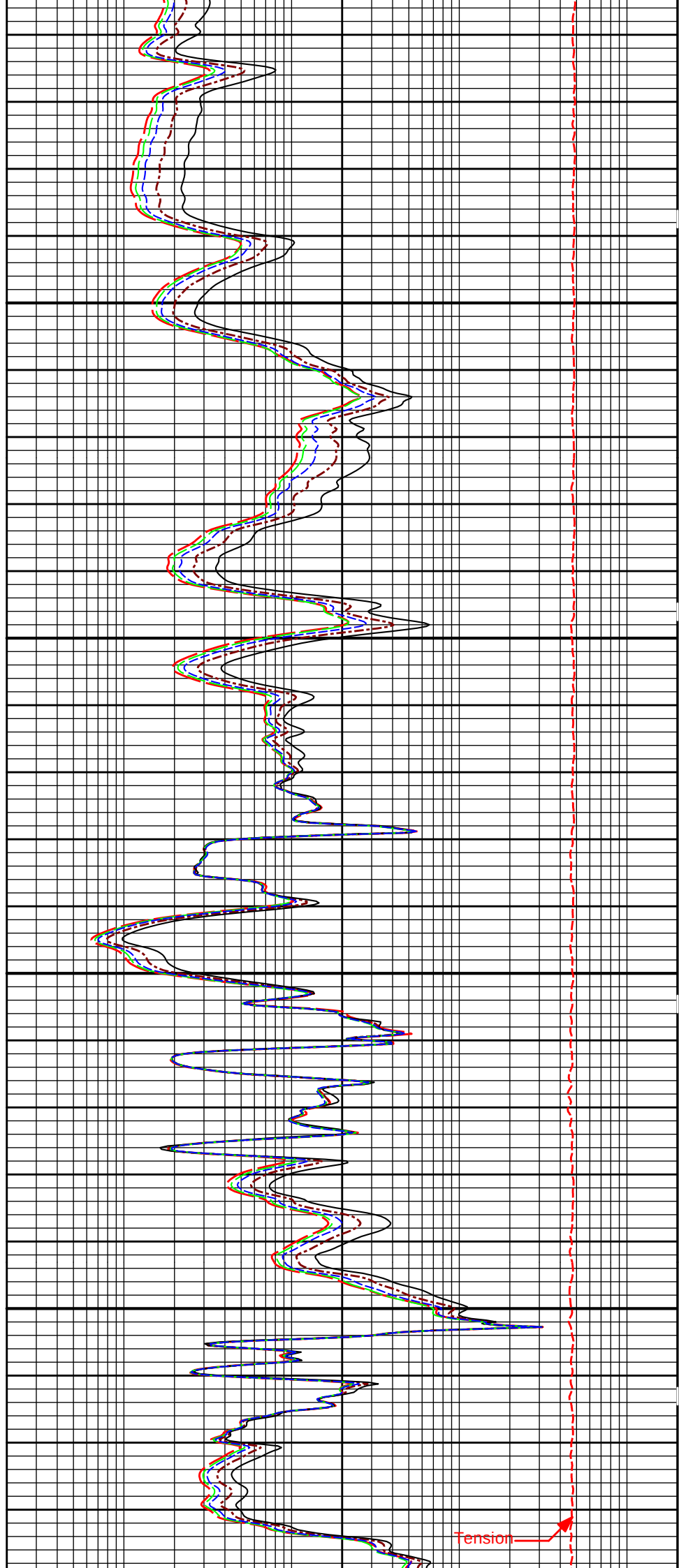


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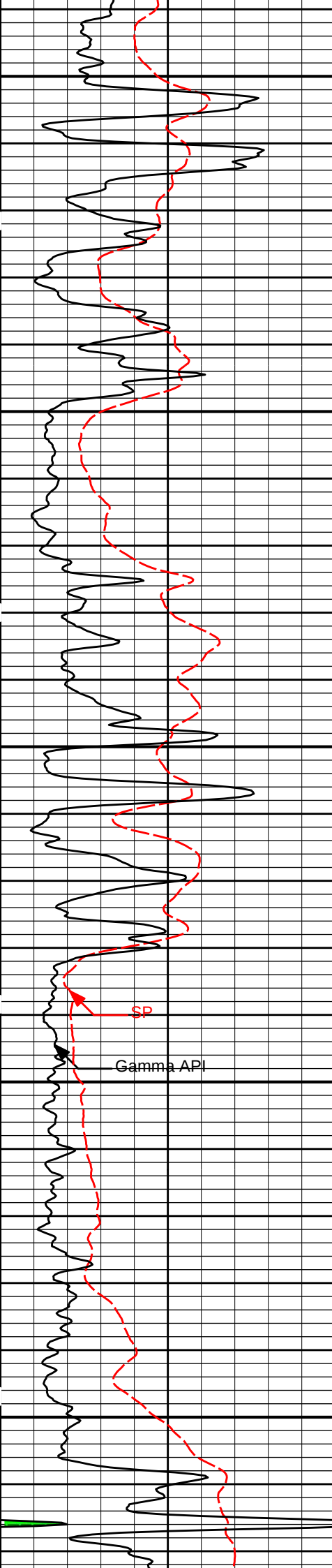


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4100

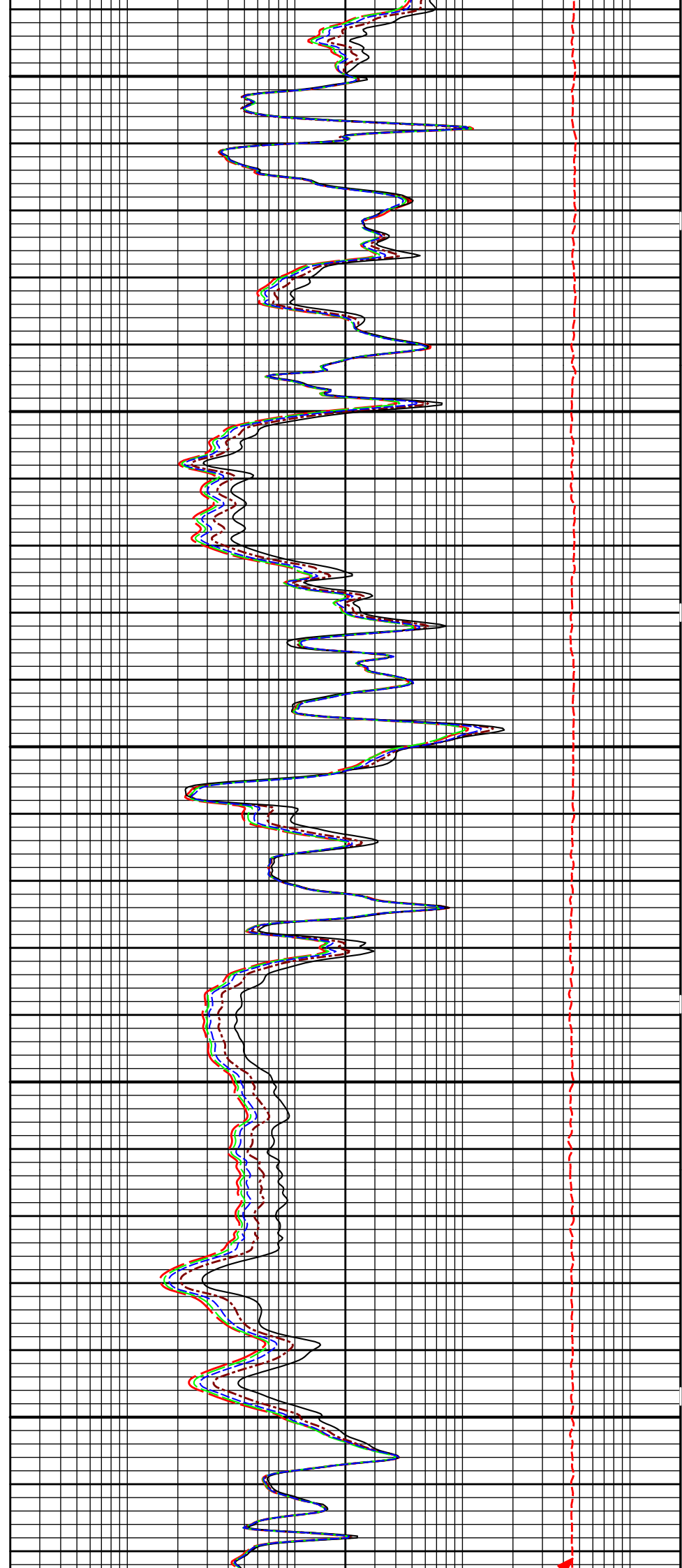


Tension



4200

4300

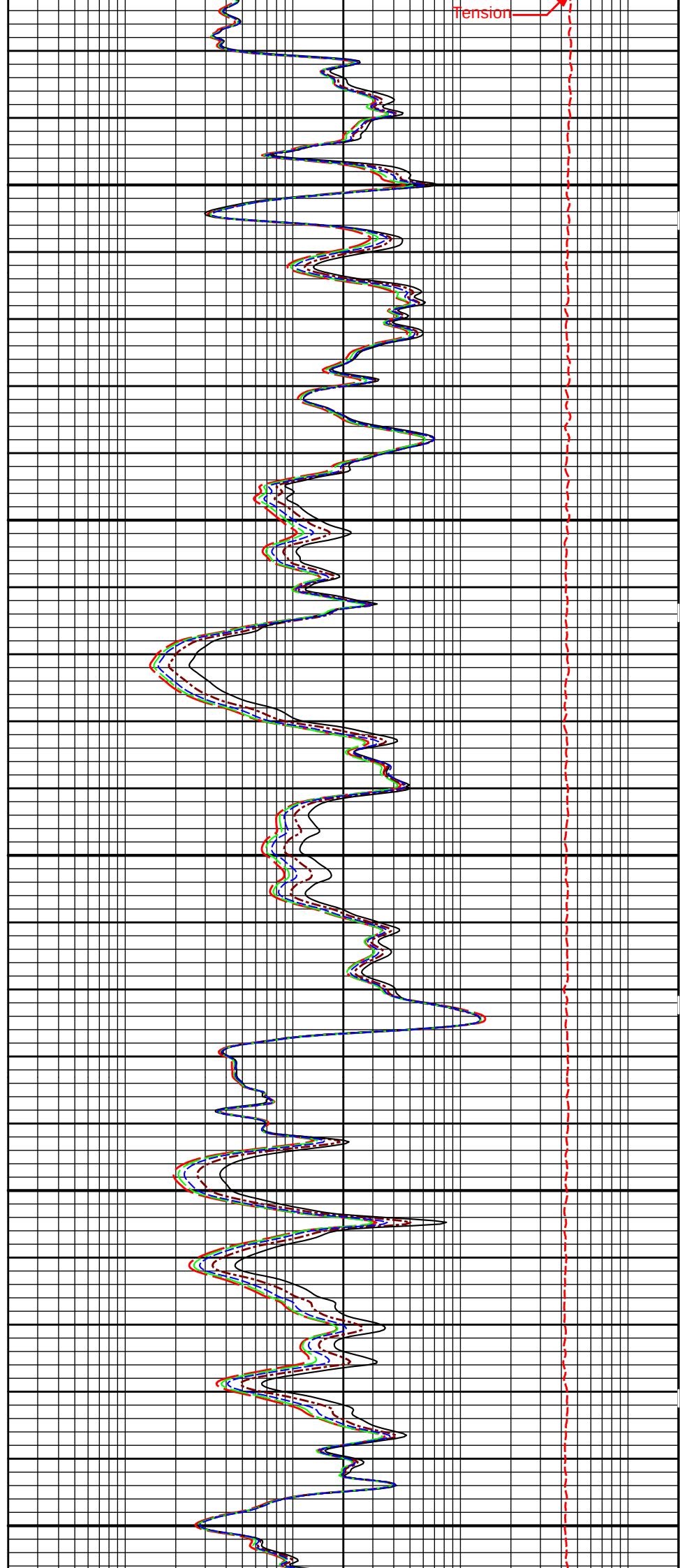


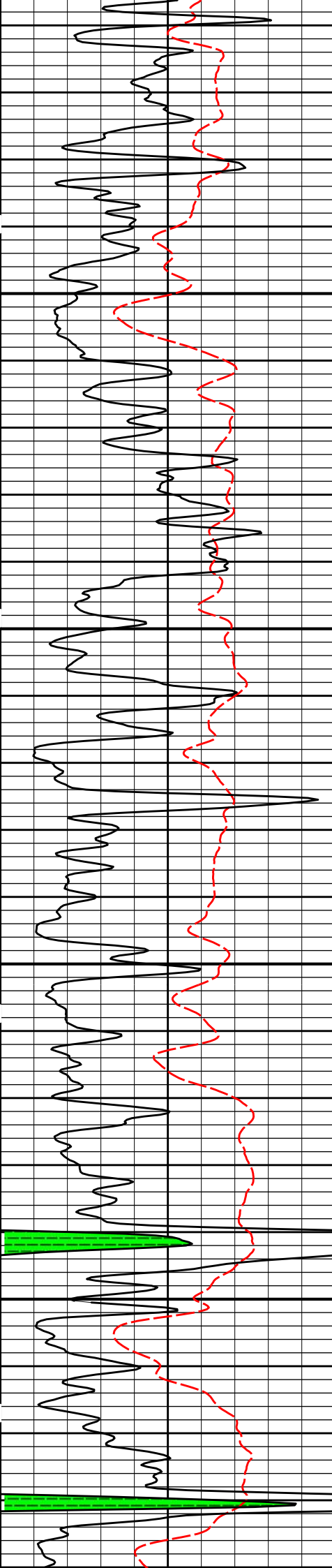


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4500

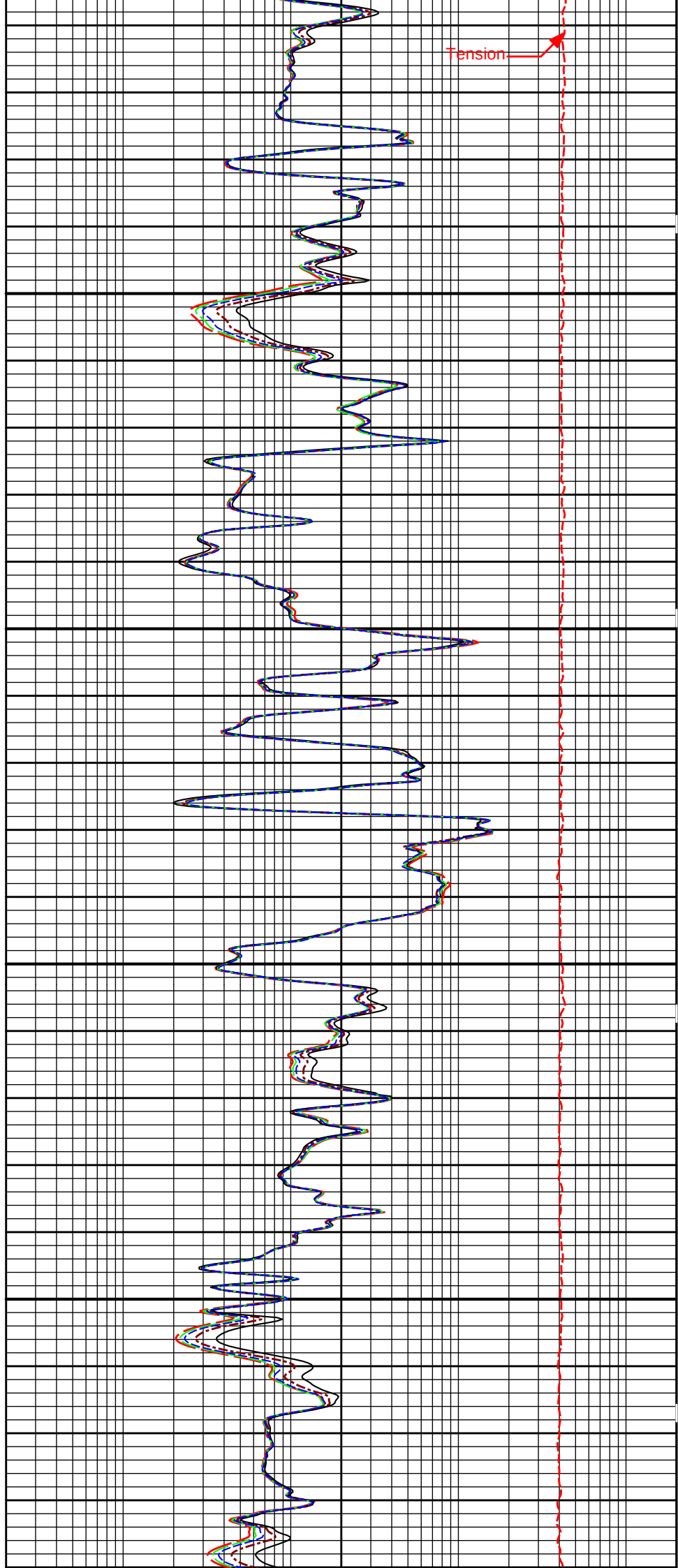
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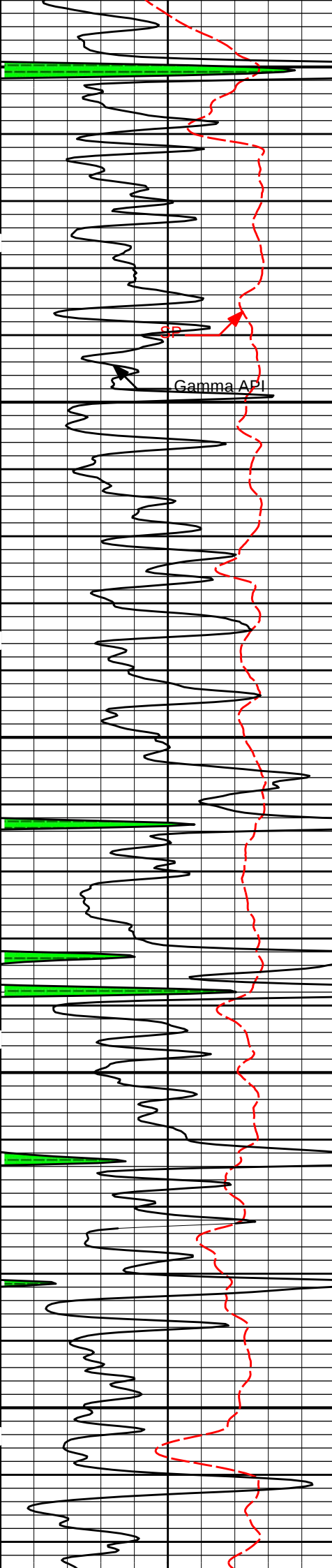




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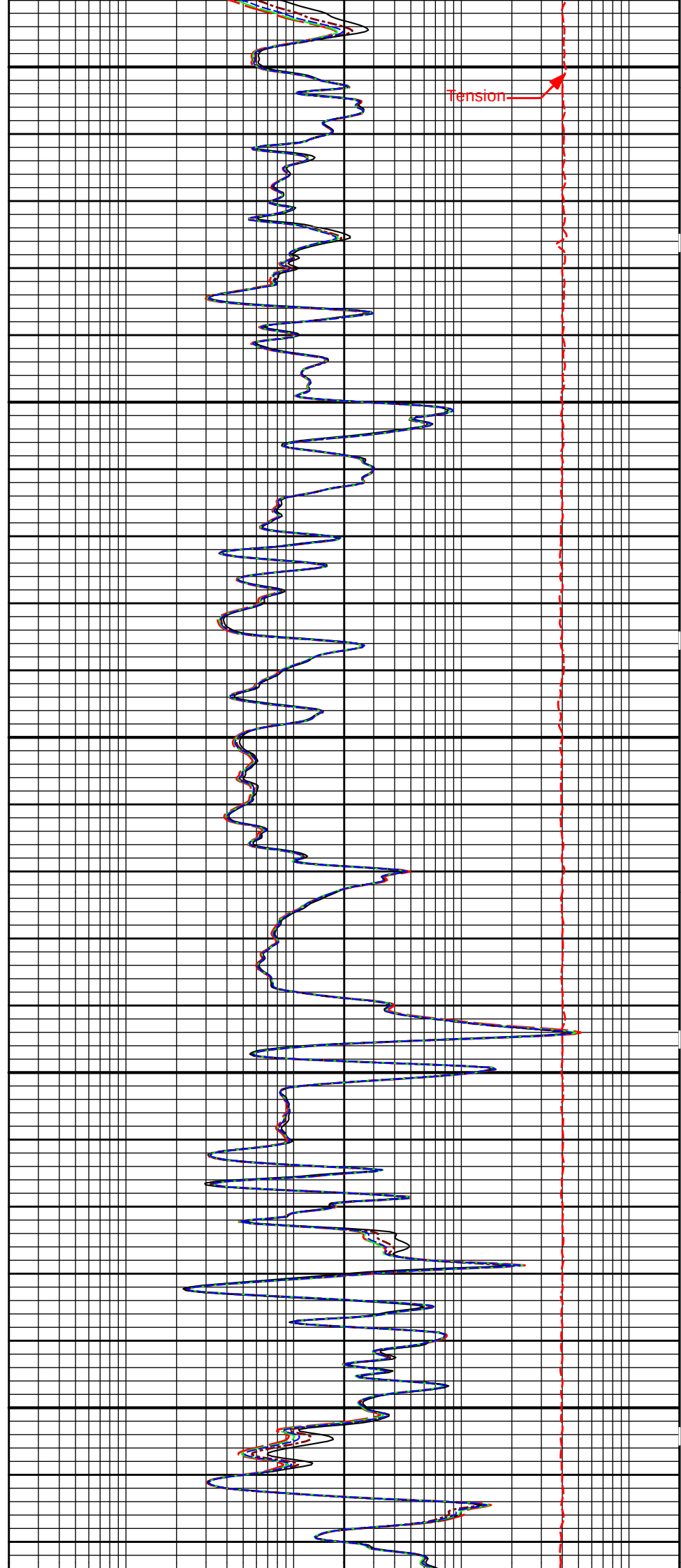
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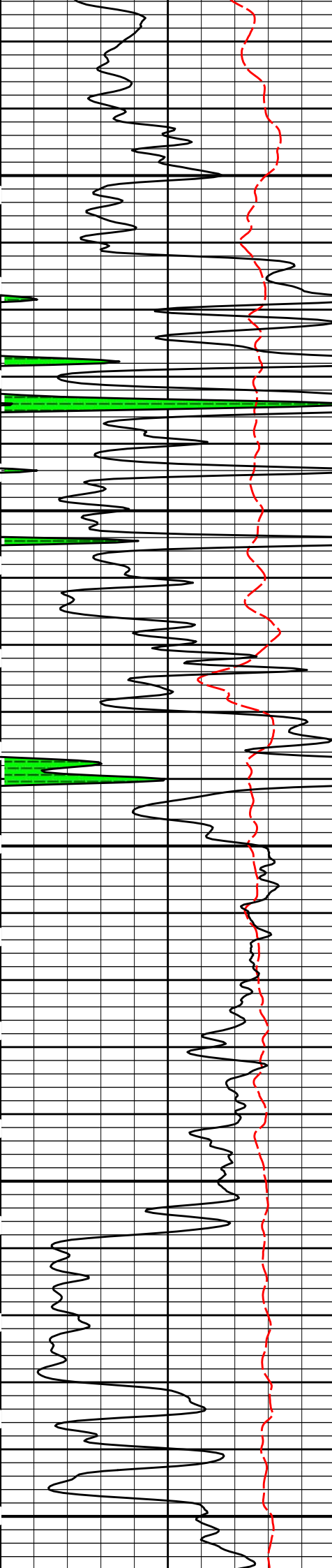




4900

5000

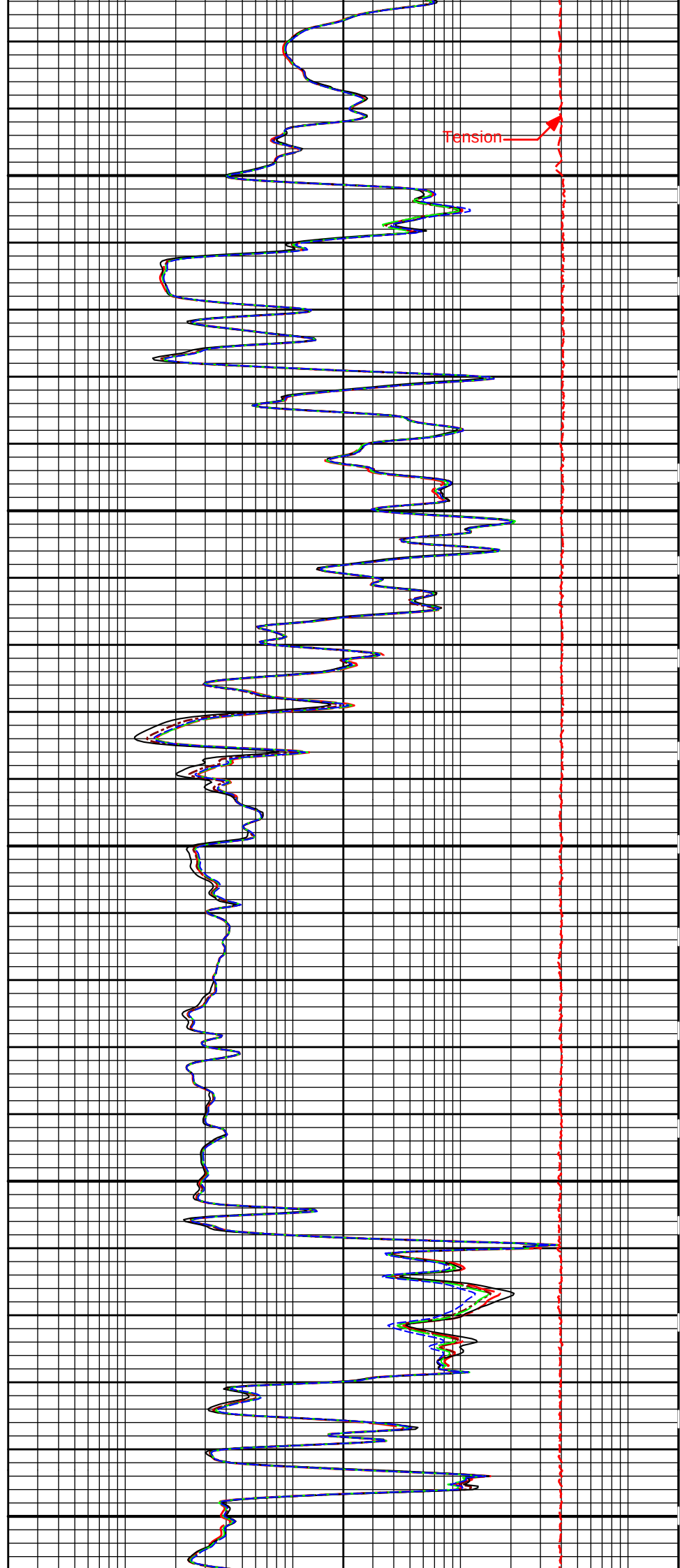




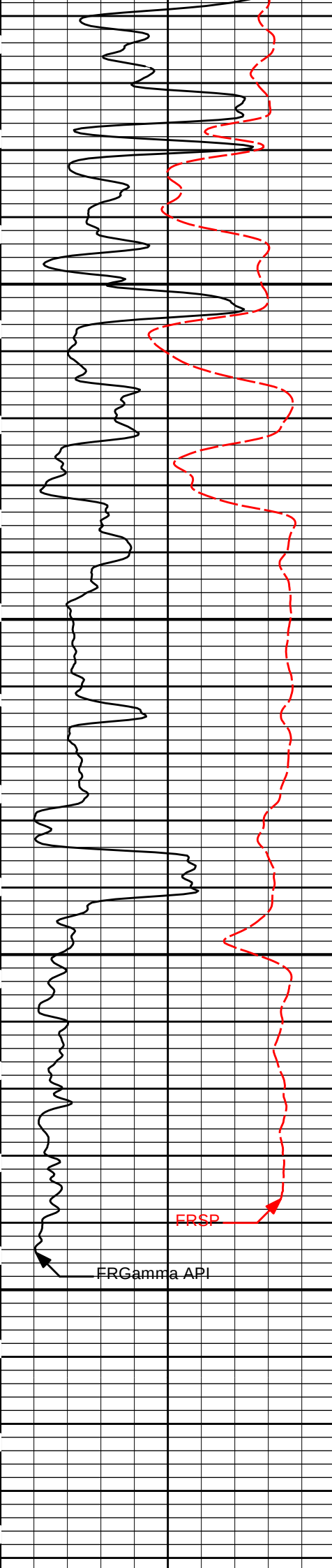
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5200

5300

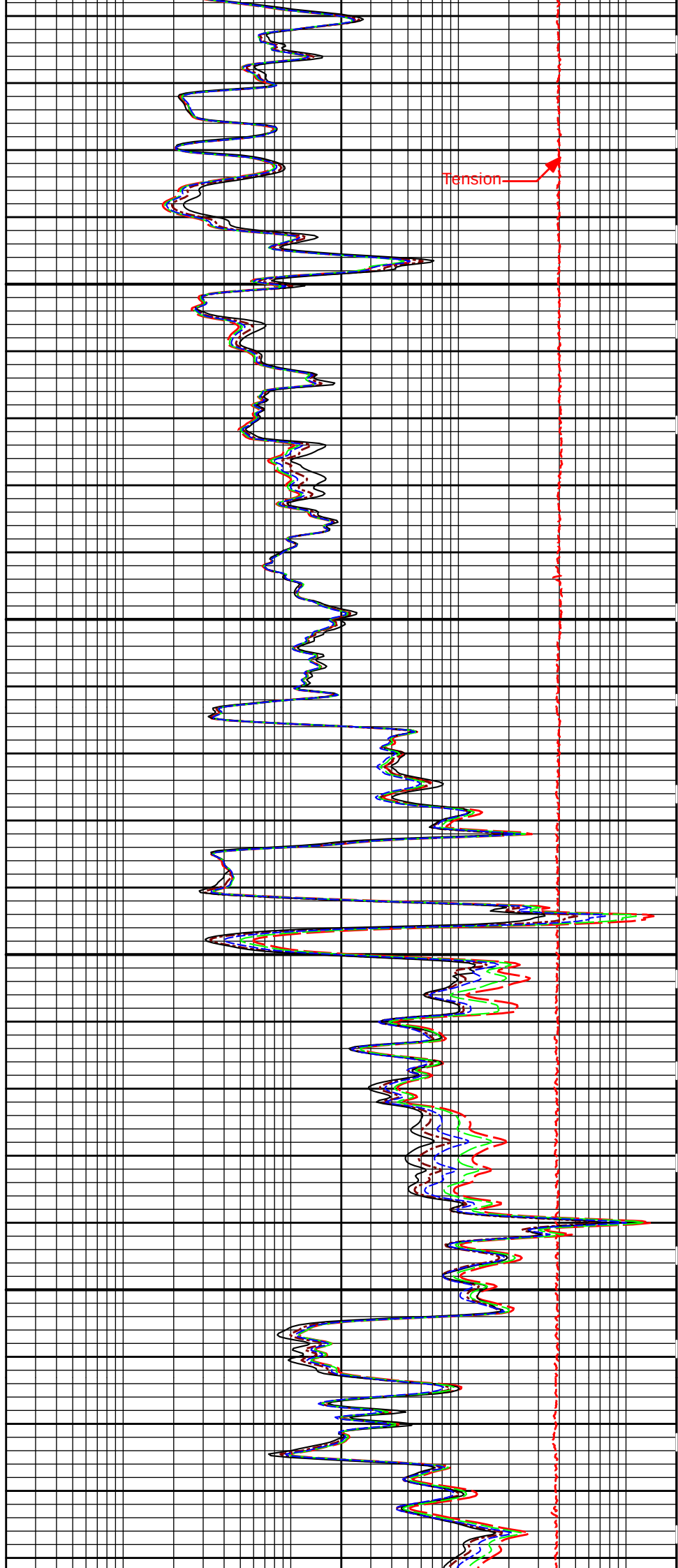


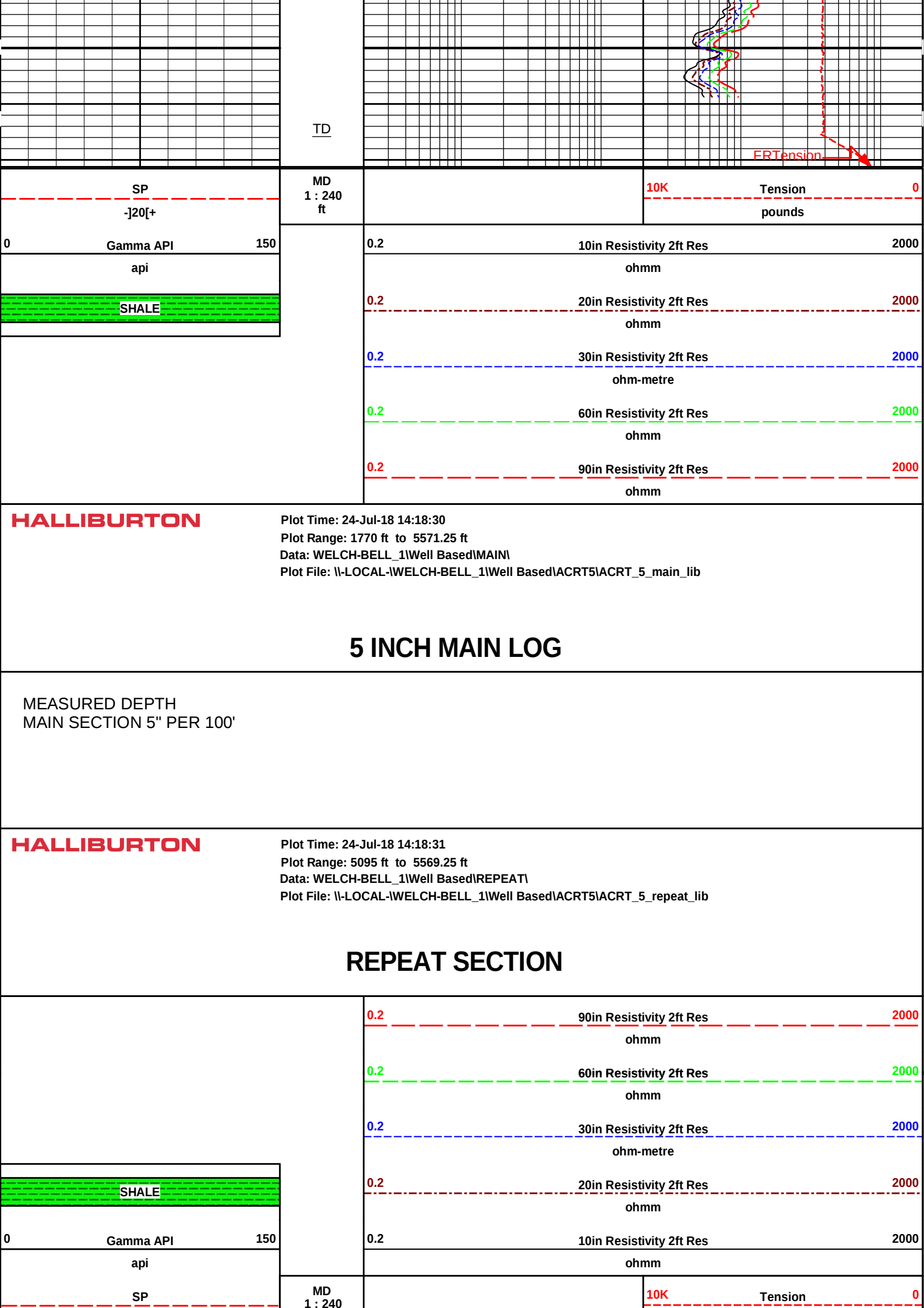
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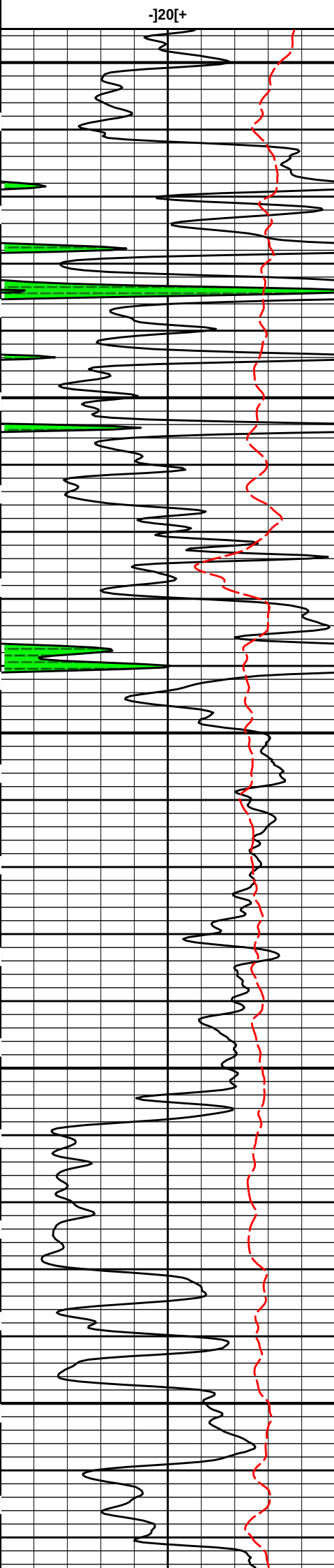


5400

5500







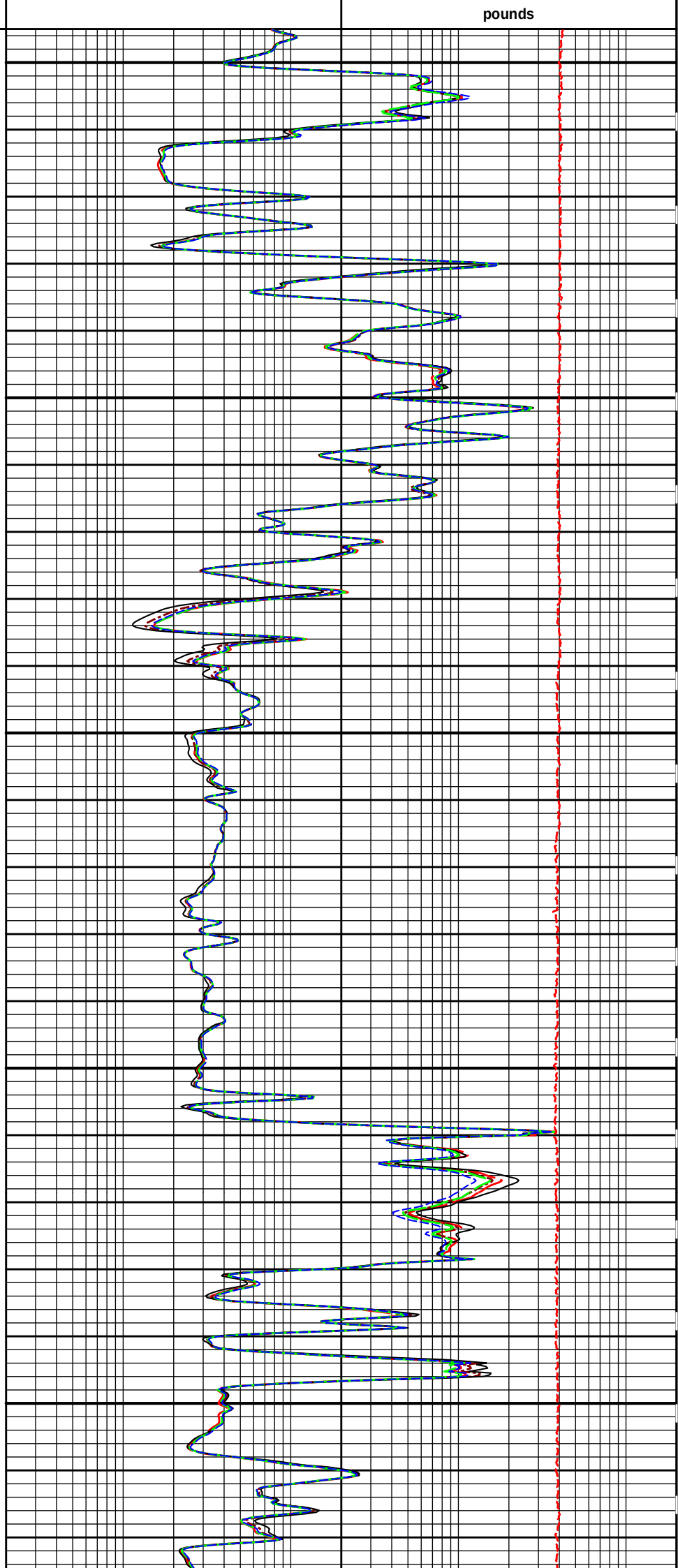
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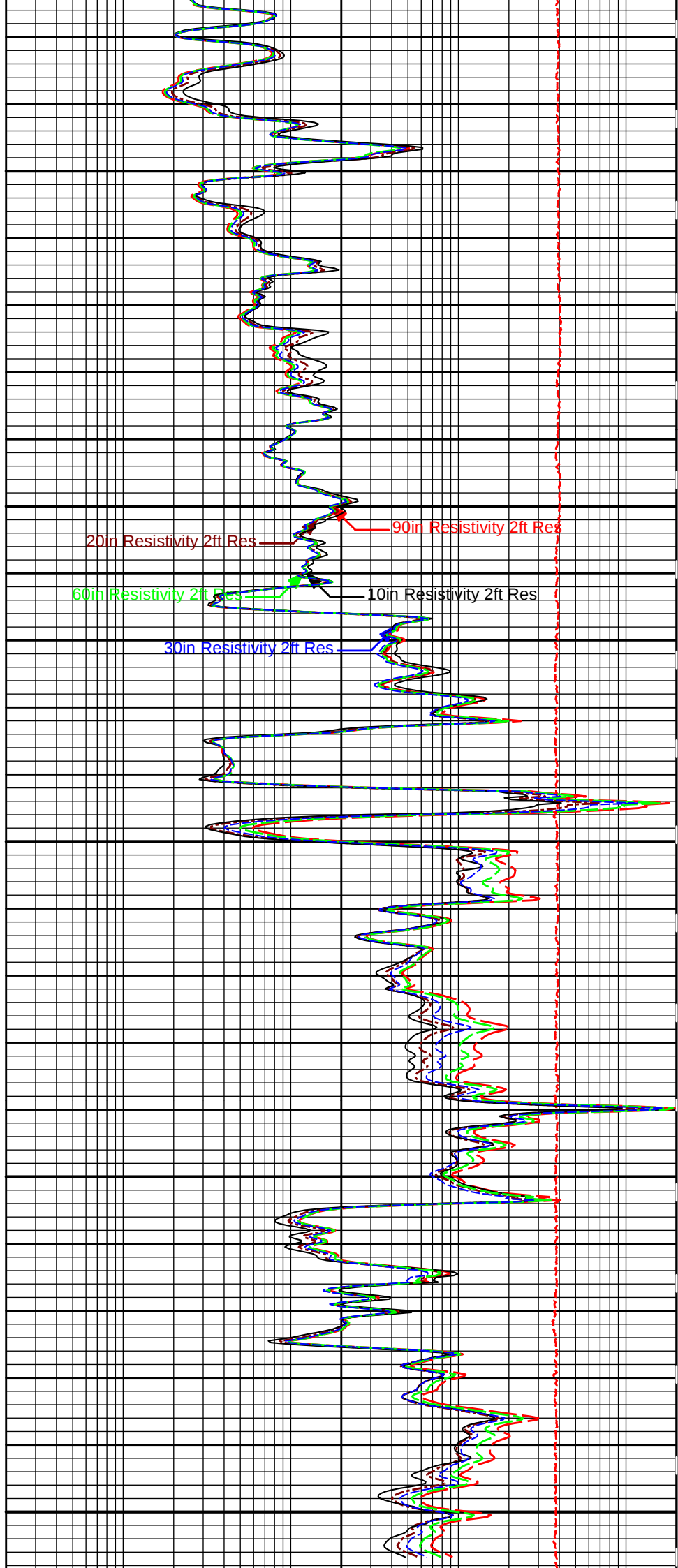
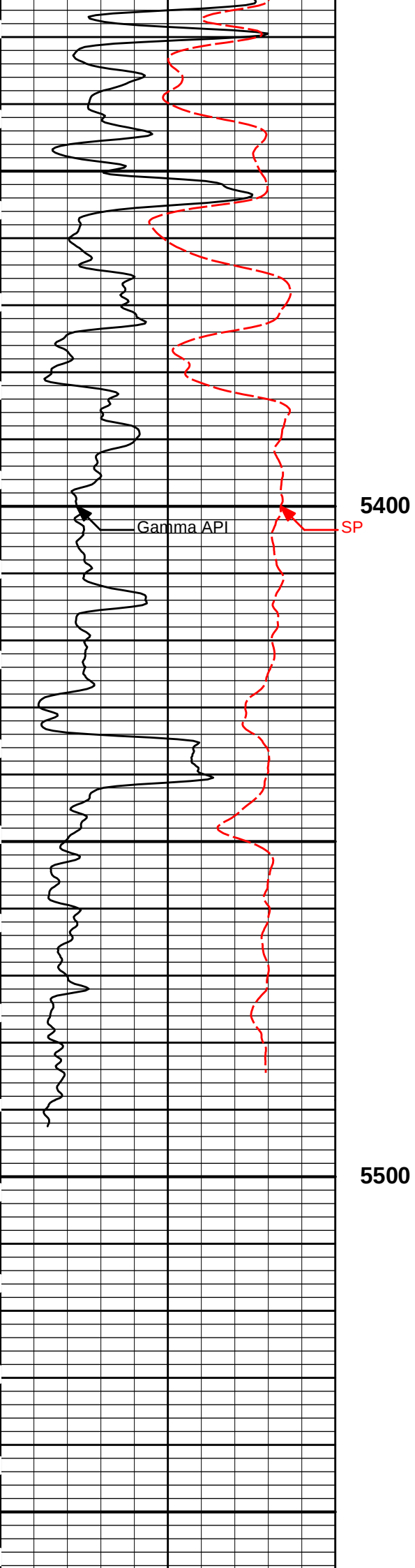
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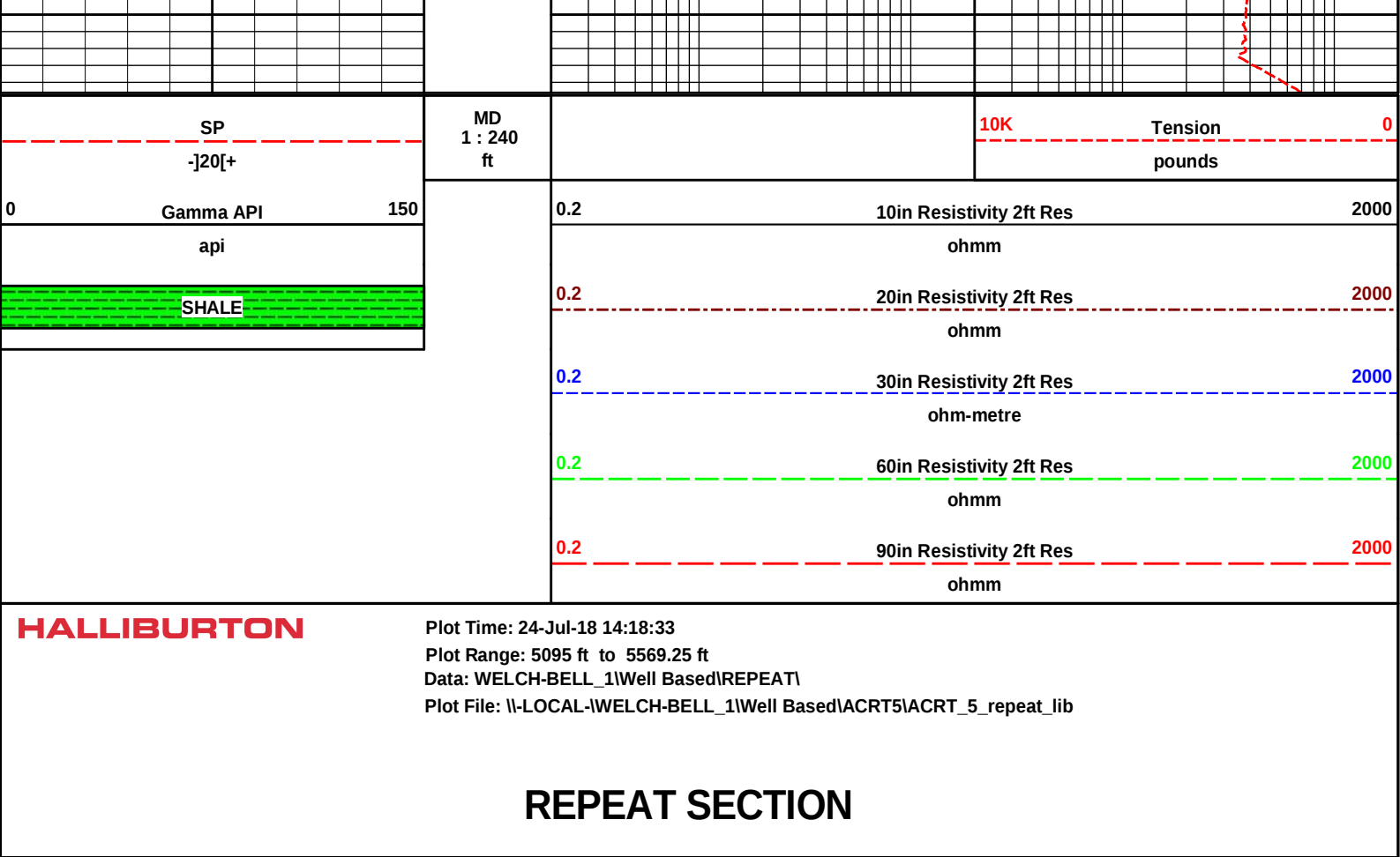
5200

5300

pounds

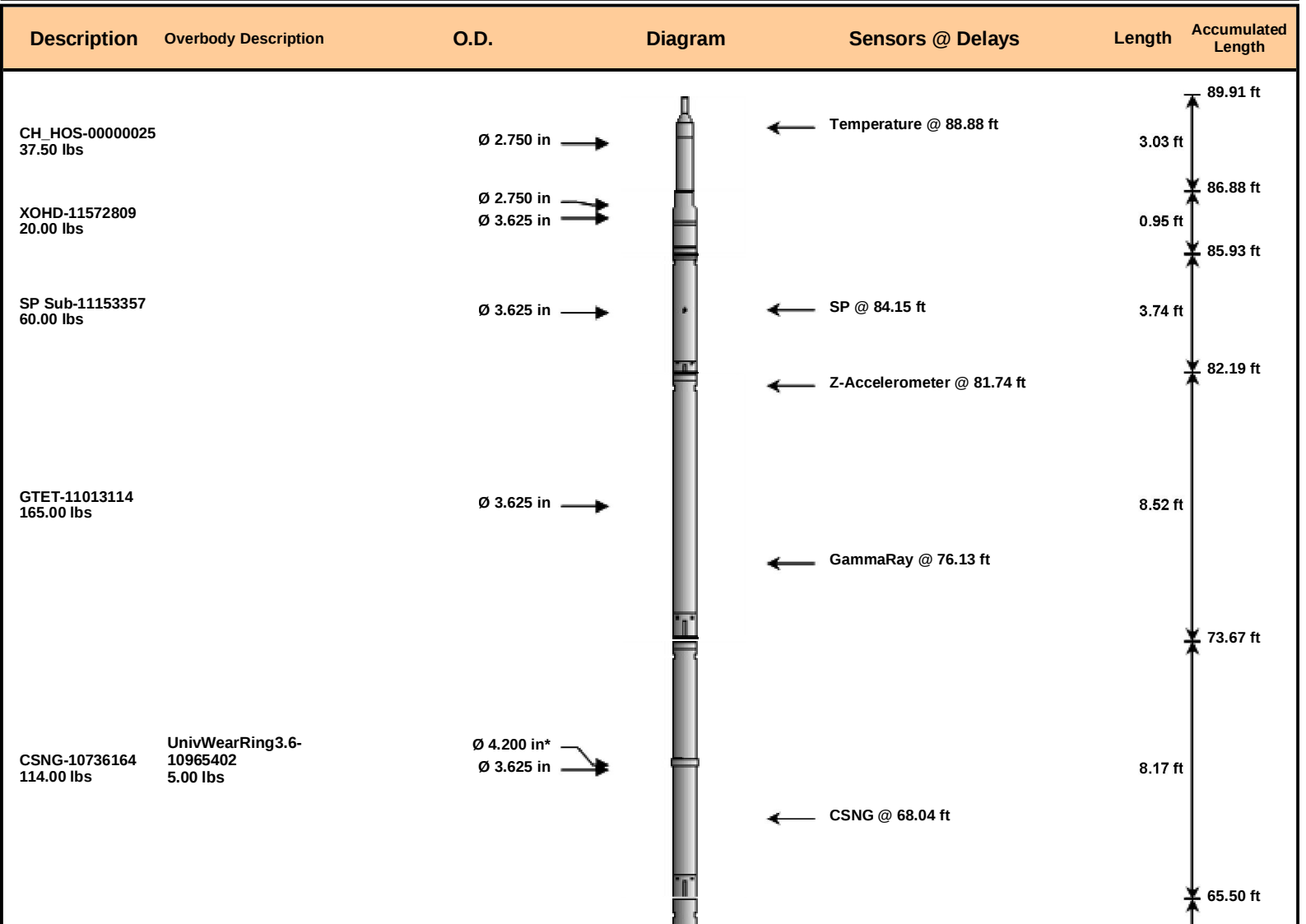


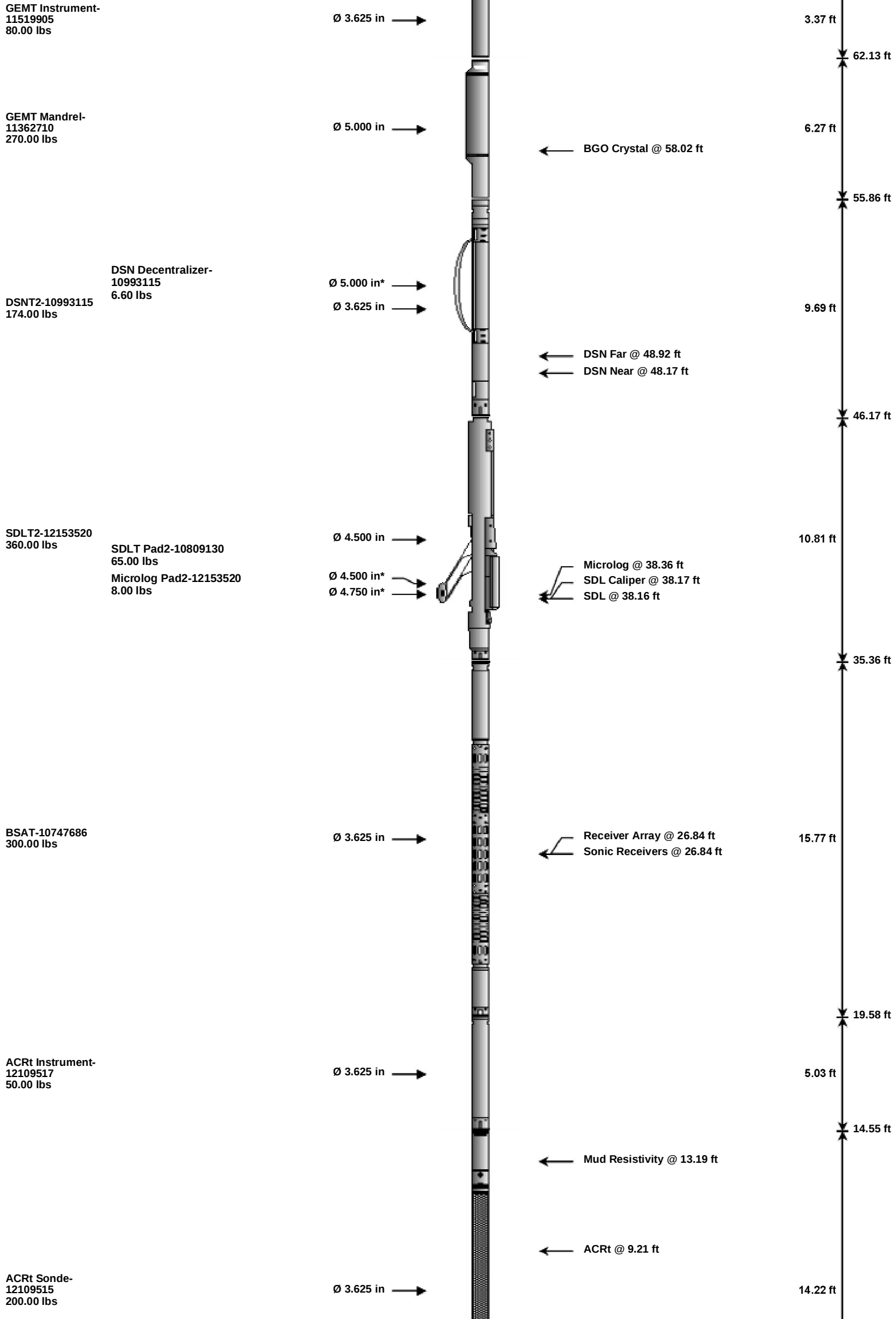




HALLIBURTON

TOOL STRING DIAGRAM REPORT





Bull Nose-12345678 5.00 lbs Ø 2.750 in → 0.33 ft 0.33 ft 0.00 ft								
Mnemonic		Tool Name	Serial Number	Weight (lbs)	Length (ft)	Accumulated Length (ft)	Max.Log. Speed (fpm)	
CH_HOS	Hostile Cable Head with Load Cell		00000025	37.50	3.03	86.88	300.00	
XOHD	Hostile to Dits Cross Over		11572809	20.00	0.95	85.93	300.00	
SP	SP Sub		11153357	60.00	3.74	82.19	300.00	
GTET	Gamma Telemetry Tool		11013114	165.00	8.52	73.67	60.00	
CSNG	Compensated Spectral Natural Gamma		10736164	114.00	8.17	65.50	15.00	
UWR3P6	Universal Wear Ring 3 5-8 inch		10965402	5.00	0.35	*	69.58	300.00
GEMT	Gamma, Elements and Minerals Tool-Instrument		11519905	80.00	3.37	62.13	15.00	
GEMT	Gamma, Elements and Minerals Tool-Mandrel		11362710	270.00	6.27	55.86	15.00	
DSNT	Dual Spaced Neutron		10993115	174.00	9.69	46.17	60.00	
DCNT	DSN Decentralizer		10993115	6.60	5.13	*	49.50	300.00
SDLT	Spectral Density Tool		12153520	360.00	10.81	35.36	60.00	
SDLP	Density Insite Pad		10809130	65.00	2.55	*	37.57	60.00
MICP	Microlog Pad		12153520	8.00	1.00	*	37.86	60.00
BSAT	Borehole Sonic Array Tool		10747686	300.00	15.77	19.58	60.00	
ACRt	Array Compensated True Resistivity Instrument Section		12109517	50.00	5.03	14.55	120.00	
ACRt	Array Compensated True Resistivity Sonde Section		12109515	200.00	14.22	0.33	120.00	
BLNS	Bull Nose		12345678	5.00	0.33	0.00	300.00	
Total				1,920.10	89.91			
* Not included in Total Length and Length Accumulation.								
Data: WELCH-BELL_10001 GTET-CSNG-GEM-DSN2-SDL2-BSAT-ACRTIDLE								
Date: 24-Jul-18 11:02:05								

HALLIBURTON

PARAMETERS REPORT

Depth (ft)	Tool Name	Mnemonic	Description	Value	Units
TOP					
	SHARED	BS	Bit Size	7.875	in
	SHARED	UBS	Use Bit Size instead of Caliper for all applications.	No	
	SHARED	MDBS	Mud Base	Water	
	SHARED	MDWT	Borehole Fluid Weight	9.500	ppg
	SHARED	WAGT	Weighting Agent	Natural	
	SHARED	BSAL	Borehole salinity	0.00	ppm
	SHARED	FSAL	Formation Salinity NaCl	0.00	ppm
	SHARED	KPCT	Percent K in Mud by Weight?	0.00	%
	SHARED	RMUD	Mud Resistivity	0.971	ohmm
	SHARED	TRM	Temperature of Mud	75.0	degF
	SHARED	CSD	Logging Interval is Cased?	No	
	SHARED	ICOD	AHV Casing OD	5.500	in
	SHARED	CSTR	Compressive Strength	1000.00	psia
	SHARED	ST	Surface Temperature	75.0	degF
	SHARED	TD	Total Well Depth	5570.00	ft
	SHARED	BHT	Bottom Hole Temperature	136.0	degF
	SHARED	SVTM	Navigation and Survey Master Tool	NONE	
	SHARED	AZTM	High Res Z Accelerometer Master Tool	GTET	
	SHARED	TEMM	CBM Temperature Master Tool	GTET	
	SHARED	SOCI	Source of Casing Information	Parameters	
	SHARED	MSAL	Water-base mud filtrate salinity	0.00	ppm

	Rwa / CrossPlot	XPOK	Process Crossplot?	Yes	
	Rwa / CrossPlot	FCHO	Select Source of F	Automatic	
	Rwa / CrossPlot	AFAC	Archie A factor	0.6200	
	Rwa / CrossPlot	MFAC	Archie M factor	2.1500	
	Rwa / CrossPlot	RMFR	Rmf Reference	0.10	ohmm
	Rwa / CrossPlot	TMFR	Rmf Ref Temp	75.00	degF
	Rwa / CrossPlot	RWA	Resistivity of Formation Water	0.05	ohmm
	Rwa / CrossPlot	ADP	Use Air Porosity to calculate CrossplotPhi	No	
	Rwa / CrossPlot	BHSM	Borehole Size Source Tool	SDLT2	
	Rwa / CrossPlot	ROIN	Input for RO Calculation	Rwa	
	GTET	GROK	Process Gamma Ray?	Yes	
	GTET	GEOK	Process Gamma Ray EVR?	No	
	GTET	TPOS	Tool Position for Gamma Ray Tools.	Eccentered	
	GTET	BHSM	Borehole Size Source Tool	SDLT2	
	CSNG	CGOK	Process CSNG Data?	Yes	
	CSNG	CENT	Is Tool Centralized?	No	
	CSNG	GBOK	Gamma Enviromental Corrections?	Yes	
	CSNG	BARF	Barite Correction Factor	1.00	
	CSNG	ORDG	Use Fixed Gain	No	
	CSNG	ORDO	Use Fixed Offset	No	
	CSNG	ORDR	Use Fixed Resolution Degradation Factor	No	
	CSNG	BHSM	Borehole Size Source Tool	SDLT2	
	GEMT Mandrel	GMOK	Compute GEMT Results?	Yes	
	GEMT Mandrel	FTAL	Fit Chemical Element Al	Yes	
	GEMT Mandrel	FTBA	Fit Chemical Element Ba	No	
	GEMT Mandrel	FITC	Fit Chemical Element C	Yes	
	GEMT Mandrel	FTCA	Fit Chemical Element Ca	Yes	
	GEMT Mandrel	FTCL	Fit Chemical Element Cl	Yes	
	GEMT Mandrel	FTFE	Fit Chemical Element Fe	Yes	
	GEMT Mandrel	FTGD	Fit Chemical Element Gd	Yes	
	GEMT Mandrel	FITH	Fit Chemical Element H	Yes	
	GEMT Mandrel	FTK	Fit Chemical Element K	Yes	
	GEMT Mandrel	FTMG	Fit Chemical Element Mg	Yes	
	GEMT Mandrel	FTMN	Fit Chemical Element Mn	Yes	
	GEMT Mandrel	FTNA	Fit Chemical Element Na	No	
	GEMT Mandrel	FITO	Fit Chemical Element O	Yes	
	GEMT Mandrel	FTS	Fit Chemical Element S	Yes	
	GEMT Mandrel	FTSI	Fit Chemical Element Si	Yes	
	GEMT Mandrel	FTTI	Fit Chemical Element Ti	Yes	
	GEMT Mandrel	KFIT	Potassium constraint flag (No = don't fit,Yes = fit)	Yes	
	GEMT Mandrel	UDFD	Use Fix Resolution Degradation Factor	No	
	GEMT Mandrel	EBCA	Apply estimated Ca bias correction	No	
	GEMT Mandrel	EBSU	Apply estimated Su bias correction	No	
	GEMT Mandrel	BHSM	Borehole Size Source Tool	SDLT2	
	DSNT2	DNOK	Process DSN?	Yes	
	DSNT2	DEOK	Process DSN EVR?	No	
	DSNT2	NLIT	Neutron Lithology	Limestone	
	DSNT2	DNSO	DSN Standoff - 0.25 in (6.35 mm) Recommended	0.250	in
	DSNT2	DNTT	Temperature Correction Type	None	
	DSNT2	DPRS	DSN Pressure Correction Type	None	
	DSNT2	SHCO	View More Correction Options	No	
	DSNT2	UTVD	Use TVD for Gradient Corrections?	No	
	DSNT2	LHWT	Logging Horizontal Water Tank?	No	
	DSNT2	USLA	Classic Neutron Parameter utilized?	No	

Field Verification	Shop	Field	Units
Background	35.7	24.5	api
Background + Calibrator	264.7	257.9	api
Calibrator	228.9	233.4	api
Shop	Field	Difference	Tolerance
228.9	233.4	-4.5	+/- 9.00

ARRAY COMPENSATED TRUE RESISTIVITY SHOP CALIBRATION			
Tool Name:	ACRt Sonde - 12109515	Reference Calibration Date:	06-Jun-18 10:26:27
Engineer:	JORGE ORLANDO PEREZ	Calibration Date:	06-Jun-18 10:38:36
Software Version:	WL INSITE R5.6.3 (Build 4)	Calibration Version:	1
Host Tool Name:	ACRt Instrument - 12109517		

TYPICAL GAIN RANGE									
Subarray	R12KHz			R36KHz			R72KHz		
	Lower	(mmho/m)	Upper	Lower	(mmho/m)	Upper	Lower	(mmho/m)	Upper
A1 (80")	0.95	1.0437	1.05	0.95	1.0237	1.05	0.95	1.0174	1.05
A2 (50")	0.95	1.0457	1.05	0.95	1.0299	1.05	0.95	1.0276	1.05
A3 (29")	0.95	1.0363	1.05	0.95	1.0179	1.05	0.95	1.0133	1.05
A4 (17")	0.95	1.0304	1.05	0.95	1.0114	1.05	0.95	1.0081	1.05
A5 (10")	N/A	N/A	N/A	0.95	1.0117	1.05	0.95	1.0066	1.05
A6 (6")	N/A	N/A	N/A	0.95	0.9910	1.05	0.95	0.9865	1.05

SONDE OFFSET									
Subarray	R12KHz			R36KHz			R72KHz		
	(mmho/m)			(mmho/m)			(mmho/m)		
A1 (80")	0.991			-4.535			-5.661		
A2 (50")	-0.134			-3.921			-4.995		
A3 (29")	-13.787			-4.734			-3.442		
A4 (17")	-110.417			-33.771			-25.565		
A5 (10")	N/A			-91.375			-40.562		
A6 (6")	N/A			301.031			154.231		

TRANSMITTER CURRENT GAIN					R-MUD VERIFICATION			
Signal	Lower	R	Upper		Signal	Lower (ohm-m)	Measured (ohm-m)	Upper (ohm-m)
12K	0.6	0.94	1.3		Mud Cell	0.95	1.00	1.05
36K	1.0	1.91	2.0					
72K	1.0	1.17	2.0					

PASS/FAIL SUMMARY			
GAIN RANGE CHK			
PASS			
SONDE OFFSET CHK			
PASS			
TOOL OK TO LOG			

CALIBRATION SUMMARY						
Sensor	Shop	Field	Post	Difference	Tolerance	Units
GTET-11013114						
Gamma Ray Calibrator	228.9	233.4	-----	-4.5	+/- 9.00	api
ACRt Sonde-12109515						
Mud Cell	1.00	-----	-----	0	-----	ohm-m

Data: WELCH-BELL_110001 GTET-CSNG-GEM-DSN2-SDL2-BSAT-ACRT\IDLE	Date: 24-Jul-18 12:00:29
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INPUTS, DELAYS AND FILTERS TABLE

Mnemonic	Input Description	Delay (ft)	Filter Type	Filter Length (ft)
Depth Panel				
TENS	Tension	0.00	NO	
Rwa / CrossPlot				
TPUL	Tension Pull	89.91	NO	
BS	Bit Size	89.91	NO	
HDIA	Measured Hole Diameter	0.00	NO	
CH_HOS				
DHTN	DownholeTension	0.00	BLK	0.000
SP Sub				
PLTC	Plot Control Mask	84.15	NO	
SP	Spontaneous Potential	84.15	BLK	1.250
SPR	Raw Spontaneous Potential	84.15	NO	
SPO	Spontaneous Potential Offset	84.15	NO	
GTET				
TPUL	Tension Pull	76.13	NO	
GR	Natural Gamma Ray API	76.13	TRI	1.750
GRU	Unfiltered Natural Gamma Ray API	76.13	NO	
EGR	Natural Gamma Ray API with Enhanced Vertical Resolution	76.13	W	1.416 , 0.750
HDIA	Measured Hole Diameter	0.00	NO	
ACCZ	Accelerometer Z	0.00	BLK	0.083
DEVI	Inclination	0.00	NO	
CSNG				
TPUL	Tension Pull	68.04	NO	
STAT	Status	68.04	NO	
FRMC	Tool Frame Count	68.04	BLK	0.250
TFRM	Total Frames	68.04	NO	
LSPD	Line Speed	68.04	BLK	0.250
CTIM	Accumulation time for sample	68.04	BLK	0.250
NOIS	Spectral Noise	68.04	BLK	0.250
STAB	Stabilizer Voltage in mv	68.04	BLK	0.250
STBP	Stabilizer 60 KEV Peak	68.04	BLK	0.250
AMER	Americium	68.04	BLK	0.250
FTMP	Flask PCB Temperature	68.04	BLK	0.250
SPEL	Low Energy Spectrum	68.04	BLK	0.250
SPEH	High Energy Spectrum	68.04	BLK	0.250
SSP	Stabilization Energy Spectrum	68.04	BLK	0.250
HDIA	Measured Hole Diameter	0.00	NO	
CSPC	CSNG Lo Hi Spectrum Data	68.04	NO	
GEMT Mandrel				
TPUL	Tension Pull	58.02	NO	
FRMC	Tool Frame Count	58.02	NO	
TFRM	Total Frames	58.02	NO	
LSPD	Line Speed	58.02	NO	
ATIM	Accumulation time for sample	58.02	NO	
CTIM	Accumulation time for single frame	58.02	NO	
STAT	Status	58.02	NO	
PHMI	Photomultiplier Current	58.02	NO	
PHVT	Photomultiplier Voltage	58.02	NO	

FTMP	Flask PCB Temperature	58.02	NO	
GSP	GEMT Spectrum	58.02	NO	
HDIA	Measured Hole Diameter	0.00	NO	
DSNT2				
TPUL	Tension Pull	48.07	NO	
RNDS	Near Detector Telemetry Counts	48.17	BLK	1.417
RFDS	Far Detector Telemetry Counts	48.92	TRI	0.583
DNTT	DSN Tool Temperature	48.17	NO	
DSNS	DSN Tool Status	48.07	NO	
ERND	Near Detector Telemetry Counts EVR	48.17	BLK	0.000
ERFD	Far Detector Telemetry Counts EVR	48.92	BLK	0.000
ENTM	DSN Tool Temperature EVR	48.17	NO	
HDIA	Measured Hole Diameter	0.00	NO	
SDLT2				
TPUL	Tension Pull	38.17	NO	
PCAL	Pad Caliper	38.17	TRI	0.250
ACAL	Arm Caliper	38.17	TRI	0.250
BSAT				
TPUL	Tension Pull	26.84	NO	
STAT	Status	26.84	NO	
DLYT	Delay Time	26.84	NO	
SI	Sample Interval	26.84	NO	
TXRX	Raw Telemetry 10 Receivers	26.84	NO	
FRMC	Tool Frame Count	26.84	NO	
GMOD	Gain processing mode	19.58	NO	
ACRt Sonde				
TPUL	Tension Pull	2.73	NO	
F1R1	ACRT 12KHz - 80in R value	8.98	BLK	0.000
F1X1	ACRT 12KHz - 80in X value	8.98	BLK	0.000
F1R2	ACRT 12KHz - 50in R value	6.48	BLK	0.000
F1X2	ACRT 12KHz - 50in X value	6.48	BLK	0.000
F1R3	ACRT 12KHz - 29in R value	4.98	BLK	0.000
F1X3	ACRT 12KHz - 29in X value	4.98	BLK	0.000
F1R4	ACRT 12KHz - 17in R value	3.98	BLK	0.000
F1X4	ACRT 12KHz - 17in X value	3.98	BLK	0.000
F1R5	ACRT 12KHz - 10in R value	3.48	BLK	0.000
F1X5	ACRT 12KHz - 10in X value	3.48	BLK	0.000
F1R6	ACRT 12KHz - 6in R value	3.23	BLK	0.000
F1X6	ACRT 12KHz - 6in X value	3.23	BLK	0.000
F2R1	ACRT 36KHz - 80in R value	8.98	BLK	0.000
F2X1	ACRT 36KHz - 80in X value	8.98	BLK	0.000
F2R2	ACRT 36KHz - 50in R value	6.48	BLK	0.000
F2X2	ACRT 36KHz - 50in X value	6.48	BLK	0.000
F2R3	ACRT 36KHz - 29in R value	4.98	BLK	0.000
F2X3	ACRT 36KHz - 29in X value	4.98	BLK	0.000
F2R4	ACRT 36KHz - 17in R value	3.98	BLK	0.000
F2X4	ACRT 36KHz - 17in X value	3.98	BLK	0.000
F2R5	ACRT 36KHz - 10in R value	3.48	BLK	0.000
F2X5	ACRT 36KHz - 10in X value	3.48	BLK	0.000
F2R6	ACRT 36KHz - 6in R value	3.23	BLK	0.000
F2X6	ACRT 36KHz - 6in X value	3.23	BLK	0.000
F3R1	ACRT 72KHz - 80in R value	8.98	BLK	0.000
F3X1	ACRT 72KHz - 80in X value	8.98	BLK	0.000
F3R2	ACRT 72KHz - 50in R value	6.48	BLK	0.000
F3X2	ACRT 72KHz - 50in X value	6.48	BLK	0.000
F3R3	ACRT 72KHz - 29in R value	4.98	BLK	0.000

F3X3	ACRT 72KHz - 29in X value	4.98	BLK	0.000
F3R4	ACRT 72KHz - 17in R value	3.98	BLK	0.000
F3X4	ACRT 72KHz - 17in X value	3.98	BLK	0.000
F3R5	ACRT 72KHz - 10in R value	3.48	BLK	0.000
F3X5	ACRT 72KHz - 10in X value	3.48	BLK	0.000
F3R6	ACRT 72KHz - 6in R value	3.23	BLK	0.000
F3X6	ACRT 72KHz - 6in X value	3.23	BLK	0.000
RMUD	Mud Resistivity	12.52	BLK	0.000
F1RT	Transmitter Reference 12 KHz Real Signal	2.73	BLK	0.000
F1XT	Transmitter Reference 12 KHz Imaginary Signal	2.73	BLK	0.000
F2RT	Transmitter Reference 36 KHz Real Signal	2.73	BLK	0.000
F2XT	Transmitter Reference 36 KHz Imaginary Signal	2.73	BLK	0.000
F3RT	Transmitter Reference 72 KHz Real Signal	2.73	BLK	0.000
F3XT	Transmitter Reference 72 KHz Imaginary Signal	2.73	BLK	0.000
TFPU	Upper Feedpipe Temperature Calculated	2.73	BLK	0.000
TFPL	Lower Feedpipe Temperature Calculated	2.73	BLK	0.000
ITMP	Instrument Temperature	2.73	BLK	0.000
TCVA	Temperature Correction Values Loop Off	2.73	NO	
TIDV	Instrument Temperature Derivative	2.73	NO	
TUDV	Upper Temperature Derivative	2.73	NO	
TLDV	Lower Temperature Derivative	2.73	NO	
TRBD	Receiver Board Temperature	2.73	NO	
HDIA	Measured Hole Diameter	0.00	NO	
Microlog Pad2				
TPUL	Tension Pull	38.36	NO	
MINV	Microlog Lateral	38.36	BLK	0.750
MNOR	Microlog Normal	38.36	BLK	0.750
SDLT Pad2				
TPUL	Tension Pull	38.16	NO	
NAB	Near Above	37.99	BLK	0.920
NHI	Near Cesium High	37.99	BLK	0.920
NLO	Near Cesium Low	37.99	BLK	0.920
NVA	Near Valley	37.99	BLK	0.920
NBA	Near Barite	37.99	BLK	0.920
NDE	Near Density	37.99	BLK	0.920
NPK	Near Peak	37.99	BLK	0.920
NLI	Near Lithology	37.99	BLK	0.920
NBAU	Near Barite Unfiltered	37.99	BLK	0.250
NLIU	Near Lithology Unfiltered	37.99	BLK	0.250
FAB	Far Above	38.34	BLK	0.250
FHI	Far Cesium High	38.34	BLK	0.250
FLO	Far Cesium Low	38.34	BLK	0.250
FVA	Far Valley	38.34	BLK	0.250
FBA	Far Barite	38.34	BLK	0.250
FDE	Far Density	38.34	BLK	0.250
FPK	Far Peak	38.34	BLK	0.250
FLI	Far Lithology	38.34	BLK	0.250
PTMP	Pad Temperature	38.17	BLK	0.920
NHV	Near Detector High Voltage	37.57	NO	
FHV	Far Detector High Voltage	37.57	NO	
ITMP	Instrument Temperature	37.57	NO	
DDHV	Detector High Voltage	37.57	NO	
HDIA	Measured Hole Diameter	0.00	NO	
Data: WELCH-BELL_1I0001 GTET-CSNG-GEM-DSN2-SDL2-BSAT-ACRTIDLE				
Date: 24-Jul-18 12:00:03				

WELL	WELCH BELL 1		
FIELD	EUBANK		
COUNTY	HASKELL	STATE	KANSAS
HALLIBURTON		ARRAY COMPENSATED TRUE RESISTIVITY LOG	